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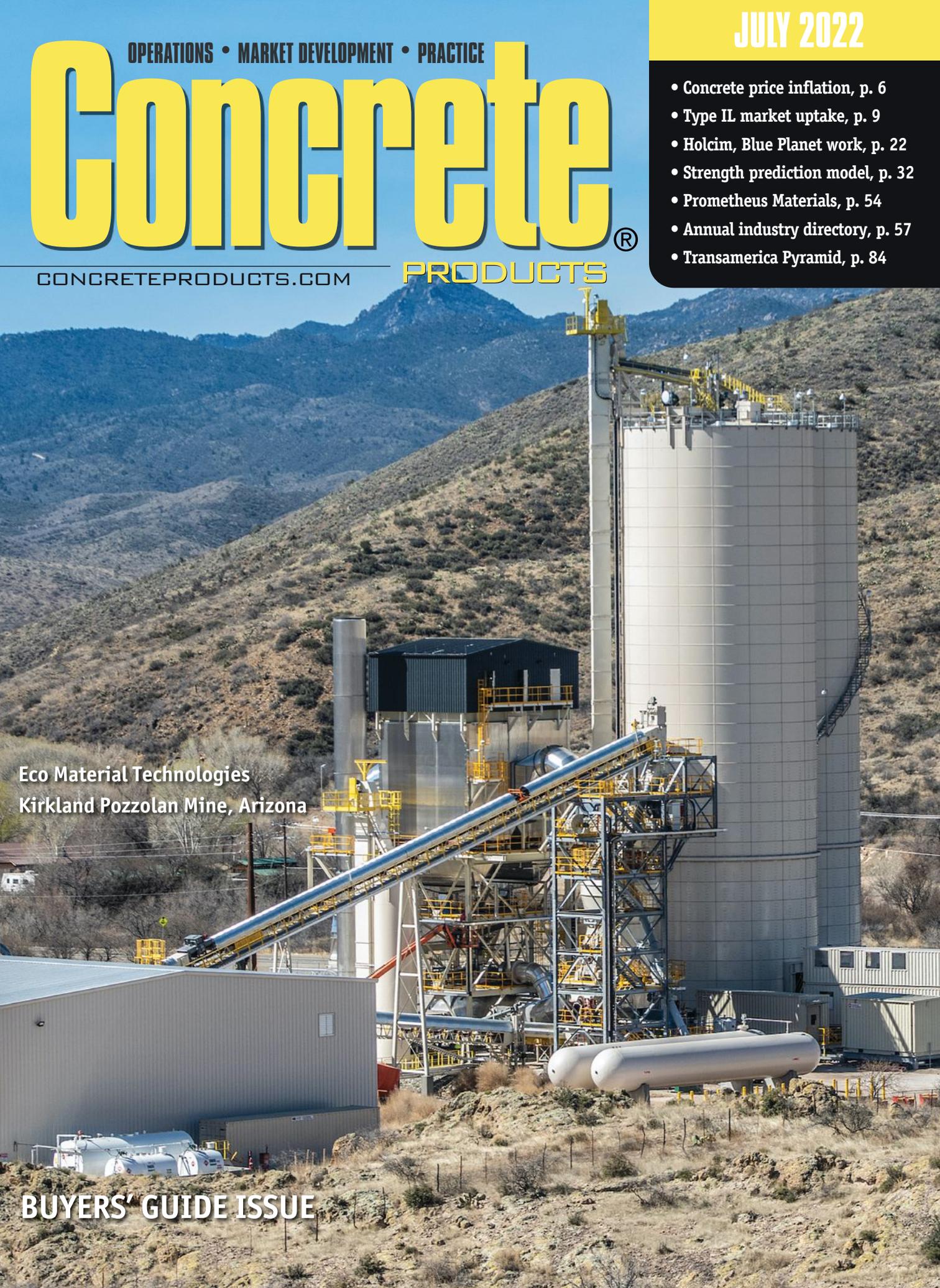
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Eco Material Technologies
Kirkland Pozzolan Mine, Arizona

BUYERS' GUIDE ISSUE



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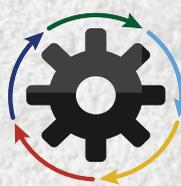


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The new owner of San Francisco's Transamerica Pyramid times major property retrofit as one of the world's premier architectural precast concrete installations turns 50.

Eco Material and Cemex define Green Bond-rated investments



Our cover story subject has hit the ground running since its official launch from an early-2022, \$775 million deal uniting Boral Resources, North American fly ash top gun, and Green Cement Inc., Texas-centric developer of PozzoSlag supplementary cementitious material and PozzoCem primary binder.

We catch South Jordan, Utah-based Eco Material Technologies Inc. at an unfolding inflection point. In a span of 10 days to close out the first half of the year, the company dedicated a 500,000 ton/year capacity finishing line for its newest product, Kirkland Natural Pozzolan. Officials

then announced a record contract that will see extraction and treatment of up to 600,000 tons/year of ash impounded at one of the country's largest coal-fired power generating stations.

CEO Grant Quasha and President Keith Depew discuss how natural pozzolan production and ash harvesting will help Eco Material reach 10 million tons of SCM deliveries annually to concrete producers and heavy/civil contractors (pages 50-53). They cite a commitment to maintaining the Class F fly ash marketing and distribution flagship, while leveraging both charter business' intellectual property to expand availability of materials meeting or besting ASTM C618 performance. Higher volume for Eco Material hinges on beneficiation of sub-C618 ash harvested from generating station landfills or ponds, along with output from new processing lines for PozzoSlag and PozzoCem. Those agents afford portland cement replacement in specification-grade concrete mixes at respective rates up to 60 percent and 100 percent.

Eco Material was founded in late-2021 by Green Cement principals. Their mission of decarbonizing construction materials, starting with cement and concrete, weighed in charter investors' financing of the Boral Resources acquisition. The ability of SCMs to offset the carbon dioxide emissions associated with portland cement production positioned Eco Material sponsors to float a \$525 million green bond—a financing instrument abiding International Capital Markets Association (ICMA) guidelines.

"The [Eco Material-Boral Ltd.] transaction could contribute to the reduction of the carbon footprint of the cement industry," observed Green bond and corporate Environmental, Social and Governance program rating service Sustainable Fitch. "The fly ash business generates additional environmental benefits and contributes to the circular economy as it repurposes a by-product of coal power plants that would otherwise be treated as waste. Furthermore, the company plans to harvest fly ash, thus clearing legacy landfills. In our view the green bond is aligned with the 'eco-efficient and /or circular economy adapted products, production technologies and processes' category of the [ICMA] Green Bond Principles."

The Eco Material example dovetails last month's announcement by Cemex S.A.B. de C.V. of a Green Financing Framework supporting Future in Action, a roadmap whose most immediate target is a 40 percent reduction in cement process emissions by 2030. The Framework enables Cemex to issue ICMA Green Bond Principles-aligned financing instruments. The producer intends to allocate net proceeds from such issuances to finance eligible carbon dioxide emissions reduction, clean electricity and energy efficiency, clean transportation, water and waste management, air quality and circular economy projects. Investors and other stakeholders can track environmental progress on the allocation of all financing instruments' funds through an annual update. Investors are certain to take note of key Cemex performance indicators as progress thresholds help determine financing interest rates.

Cemex and Eco Material are demonstrating how environmental value propositions, backed by metrics-rich ratings service analyses, can steer climate-minded investors to green bonds or other instruments underwriting cement and concrete production of the future.

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Concrete Prices Demonstrate Stability



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The sticker shock Americans are exhibiting in supermarkets, gas stations, and retail establishments is resounding throughout our economy, at a pace faster than I would have expected. The rampant inflation caused by the global supply/demand imbalance and related supply chain issues has ignited inflation from near zero to levels not seen since the 1980s. So with few options, the Fed has initiated a bare-knuckled, fisticuffs battle with inflation—putting that fight first, at the cost of higher interest rates and a slowing economy.

This reality is witnessed throughout all the goods and services we consume, including the majority of construction products across the board. Now, a new U.S. Bureau of Labor Statistics Producer Price Index report confirms rampant inflation levels of greater than 50 percent among eight of 11 nonresidential construction input subcategories. An Associated Builders & Contractors analysis finds segment prices up 21.9 percent year-over-year through May, and 44.4 percent since February 2020. Plumbing Fixtures and Concrete Products prices have exhibited the most stability, respectively rising 11.3 percent and 12 percent and 14.5 percent and 16.8 percent over the 12- and 26-month periods.

While concrete products may be a poster child for tame inflation, producers should work hard to be sure their input costs, i.e., sand, stone, cement, and admixtures, get passed along to their customers, which is easier said than done. Many producers are now negotiating escalator clauses into their bids to protect from material price increases.

ABC Chief Economist Anirban Basu’s outlook confirms what we all know. He says “inflationary pressures show no signs of

abating. For months, economists and others have been expecting inflation to peak and then subside. Instead, the Russia-Ukraine war has disturbed markets, driving energy prices higher. Those prices are now circulating across the economy, affecting manufacturing and distribution, and there is little prospect for inflation to meaningfully subside during the weeks ahead.”

He goes on to say that policymakers will continue to aggressively combat inflationary pressures. But what the Federal Reserve most directly affects is demand for goods and services, not supply. By tightening monetary policy and raising interest rates, it will suppress demand over the rest of the year. Eventually, suppliers will respond to diminished demand. The fear is their bare-knuckled inflation battle could drive the economy into recession in the months ahead.

Basu goes on to report that “based on the historical lag between the performance of the economy and nonresidential construction spending, more difficult times could be ahead for contractors in 2024 or 2025. Looking at the most recent reading of ABC’s Construction Confidence Index, contractors are already seeing momentum slow. The likely exception is public contractors, who will continue to benefit from stepped-up infrastructure spending.”

This outlook simply confirms the already-shaken confidence of consumers, which has suddenly plunged to historic lows in recent weeks. As I have stated so many times in the past, consumers represent 70 percent of gross domestic product, and their sentiment reaches into every corner of our economy. For our industry, the challenge remains to balance input costs with selling prices to assure we are maintaining our margins.

NONRESIDENTIAL CONSTRUCTION INPUTS

Subcategory	Change since February 2020	Change since May 2021
Natural Gas	414.0%	174.0%
Unprocessed Energy Materials	182.4%	101.1%
Steel Mill Products	128.2%	32.9%
Crude Petroleum	107.0%	59.0%
Iron and Steel	102.9%	27.5%
Softwood Lumber	98.2%	-21.7%
Fabricated Structural Metal Products	55.2%	32.8%
Nonferrous Wire and Cable	51.8%	19.7%
Prepared Asphalt, Tar Roofing & Siding Products	32.8%	18.9%
Concrete Products	16.8%	12.0%
Plumbing Fixtures and Products	14.5%	11.3%

SOURCE: U.S. Bureau of Labor Statistics

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Graphene in Clinker Greens Portland Cement

Graphene is light, super strong and can lessen the CO2 footprint of cement.

Sir Isaac Newton famously wrote, “If I have seen further than others, it is by standing on the shoulders of giants.” A giant in the natural sciences, Newton knew sustainable progress is only possible through building on incremental advances.

In November, the 2021 United Nations Climate Change Conference (COP26) took place in Glasgow, Scotland—a handful of hours away from Newton’s family home. During the conference, over 40 of the world’s leading cement and concrete manufacturers pledged to cut carbon emissions 25 percent by 2030, as part of a wider commitment to achieve net zero by 2050.

Reducing the CO₂ footprint is key to the cement and concrete industry’s goal, yet in a scientific irony, adding a little bit of carbon to concrete will go a long way toward reaching that goal. Mike Bell, CEO of First Graphene Ltd. (<https://firstgraphene.net>), cites numerous academic works over the past several decades that clearly indicate measurable strength improvements in concrete with the addition of various forms of carbon. However, the challenge is how to scale up from academia and practical applications.

This column has outlined the efforts of several innovative companies to combine carbon in various forms with ready mix concrete to help green up the ledger. While the consensus approach is direct carbon injection, it is critical to have even distribution of a very small amount of carbon in the bulk material to maintain uniform material properties.

Bell tried a similar approach by mixing graphene directly into ready mix concrete. He discovered the same distribution issues.

GRAPHENE AS AN ADDITIVE

Graphene is an allotrope of carbon. In its purest theoretical form, it consists of a single layer of carbon atoms arranged in a two-dimensional honeycomb lattice structure. Graphene’s sp² hybridization and very thin atomic thickness (0.345 nm) enable it to break records in terms of strength as well as electricity and heat conduction.

Bell’s research team initially undertook several large-scale validation trials to directly mix graphene in concrete with “mixed” results—no pun intended. Some trials showed spectacular strength increases while others saw little improvement. Post-trial analysis indicated a strong correlation between strength improvement and the degree to which the graphene is evenly distributed in the mixture.

solution, the researchers instead took a note from Newton. They figuratively stood on the shoulders of prior work and went upstream to find a place for graphene in the manufacture of portland cement.

Working with several global cement additive manufacturers, Bell’s team focused on developing a graphene-enhanced grinding agent for clinker. Cement clinker is a solid material that is formed by sintering (fusing together without melting to the point of liquefaction) limestone and a second material that contains clay as a source of aluminosilicate. Sintering is energy-intensive, making it responsible for much of portland cement’s heavy carbon footprint.

Initial work by Bell’s team has shown that adding a small amount of graphene via a grinding agent to clinker reduces the grinding time (energy) by approximately 15 percent. More importantly, the end product’s (portland cement) 28-day compressive strength increases by ~25 percent. Tensile strength increases by ~15 percent.

WHY DOES THIS MATTER?

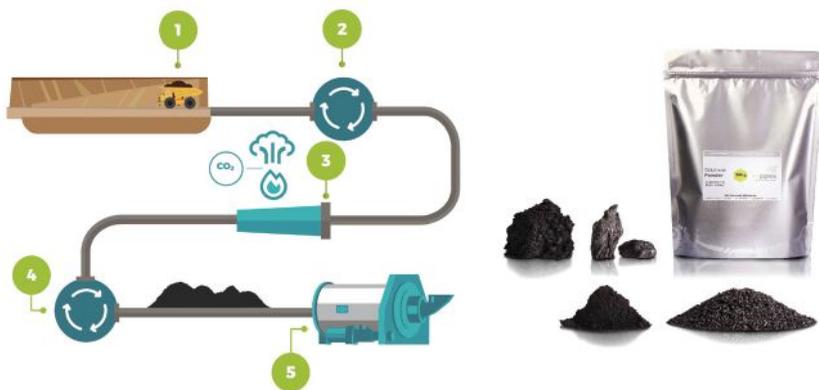
Let’s say the original cementitious product was 80 percent ground clinker and 20 percent other constituents with a much lighter carbon footprint, like limestone. Bell says higher-strength clinker (thanks to graphene) allows less to be used by volume. Now 80/20 might become 70/30, replacing 10 percent of the high-carbon clinker with low-carbon limestone.

PIVOTING TO CLINKER

Instead of digging in their heels to force a



Craig Yeack has held leadership positions with both construction materials producers and software providers. He is co-founder of BCMI Corp. (the Bulk Construction Materials Initiative), which is dedicated to reinventing the construction materials business with modern mobile and cloud-based tools. His Tech Talk column—named best column by the Construction Media Alliance in 2018—focuses on concise, actionable ideas to improve financial performance for ready-mix producers. He can be reached at Craig.Yeack@bcmicorp.com.



First Graphene charts portland cement production, from 1) extraction of calcium, silica, aluminum and iron sources; 2) crushing, grinding and other kiln raw feed preparation; 3) kiln and clinker phase, during which more than 50 percent of process-rooted carbon dioxide is released; and, 4) clinker cooling. First Graphene technology enters at 5) grinding, where PureGRAPH material is added, lowering by up to 20 percent the amount of clinker in a finished ton of binder. The use of graphene additives can increase strength, reduce clinker factor in cements (reducing carbon footprint) and potentially increase the longevity of concrete.

Testing is ongoing, and viable commercial applications are being trialed with the world's largest commercial company for grinding aids and chemicals. It is important to note that, like all grinding agents, each cement processing facility will require a custom formulation to match the constituent material chemistry.

Bell says the EBITDA question is a wash. Essentially, the graphene grinding agent's higher cost is offset by the reduced grinding time and the ratio of lower-cost material substitution for clinker. As with any innovation, the real need for adoption is demand.

The ready mix concrete industry has a role to play. At present, many infrastructure projects require a reduced carbon footprint for successful bidding and impose hefty penalties if the goals are not met in a verifiable fashion. One of the easiest compliance methods is to use a certified low(er)-carbon portland cement, and our job is to place this demand on cement suppliers.

The energy question remains: Are we just exchanging one polluter, in whole or in part, for another? Electricity is the largest cost component for the transition of high-quality carbon to graphene via electrochemical exfoliation. Right now, the electricity comes from traditional sources. Bell's team has developed a roadmap to transition to cleaner, sustainable sources including wind and solar.

The First Graphene team came up with an eloquent solution by taking a step back to find the truth. They applied the best of Newton's laws and principles: "Truth is ever to be found in simplicity." If graphene in portland cement proves to work as Bell's early research indicates, they nailed it.



PHOTOS: First Graphene Ltd.

Population growth and rapid urbanization continue to boost the growth of concrete products, but the industry faces major challenges—most notably, the pressure to reduce the carbon footprint of cement-based products.



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Shaping the future, sharpening the carbon focus

Within a year of the California Nevada Cement Association's release of an industry-wide roadmap to attain net zero carbon operation by 2045, a rare alignment of state government, industry stakeholder and environmental group initiatives is validating some of the lowest hanging fruit in the action plan.

CNCA envisions three major pathways for the industry to attain the bold goal: reducing production process emissions, reducing combustion emissions through fuel switching, and increasing distributed electricity generation. Within these pathways are nine key levers to make carbon neutrality possible, beginning with what the group calls a powerful first lever—portland-limestone cement.

PLC market development was prioritized as CNCA members, like their Portland Cement Association peers, view low-carbon cement adoption and acceptance as easily achievable. It does not require new production facilities or additional transportation impacts as it is produced with existing limestone sources. In fact, CNCA officials say San Diego has been leading in the acceptance and use of the material and they are seeing that enthusiasm spread throughout the state—not just by local authorities but also state officials.

CALTRANS APPROVAL

The California Department of Transportation, best known as Caltrans, was not the first state agency to move on blanket approval of portland-limestone cement, but its action earlier this year stands to catalyze the material's consumption coast to coast.

The approval for this low-carbon cement was predicted on an extensive Caltrans-funded research conducted at Oregon State University College of Engineering. A team lead by Professor Jason Weiss concluded that PLC is equally suitable for the agency's construction projects as ordinary cement, while providing a quantifiable carbon reduction. Throughout the research process, Caltrans worked closely with industry experts and stakeholders, such as the California Construction and Industrial Materials Association and CNCA, to draft the new standard specifications.

"Using low-carbon cement can cut Caltrans' concrete-related carbon dioxide emissions annually by up to 10 percent. This is a big step in supporting California's efforts to achieve carbon neutrality by 2045," notes Caltrans Director Toks Omishakin.

In 2017 alone, Caltrans used 325,000 tons of cement to upgrade the state highway

system. Switching to low-carbon binder, the agency sees the potential to reduce construction supply chain carbon dioxide emissions by 28,000 tons a year—the equivalent of removing more than 6,000 cars off the road. Caltrans expects that the reduced energy needs associated with PLC production will make the cost similar or slightly less when compared to ordinary cement.

Since Caltrans' October approval of the material, Arizona and Nevada Departments of Transportation have joined the bandwagon so that the entire western United States is on board. The addition of Vermont and Maryland bring the total of state authorities recognizing PLC in specifications for concrete pavement, bridge and other structures to 45. The approvals will accelerate a Portland Cement Association-tracked PLC consumption trajectory eclipsing 6 million metric tons to date.

CALPORTLAND: FRONTRUNNER

In an effort to help CalPortland Co. and its customers achieve their carbon reduction goals, the producer has converted its Mojave, Calif. cement plant to Advancement HS, a

blended portland-limestone cement—the first in the state to make the full transition.

The Mojave mill conversion dovetails broad market PLC uptake, underscored by the addition of Advancement HS and other Type II cements to the Caltrans-approved materials list. The 1.3 million ton/year capacity plant's switch to the material will reduce the facility's carbon emissions by 10 percent on a per ton basis.

CalPortland and peers' migration from 100 percent clinker offerings supports CNCA's goal to attain net zero by 2045 as well PCA's Roadmap to Carbon Neutrality, which charts a nearly 30-year path of carbon dioxide emissions reduction at plants and downstream concrete or construction points nationwide.

LEGISLATION PROPELS GOALS

Legislation effective at the start of the year made California the first state to directly target greenhouse gas emissions from cement. Senate Bill 596 was also the first bill in any California sector to focus on achieving net-zero emissions.

"California is now the leader in driving

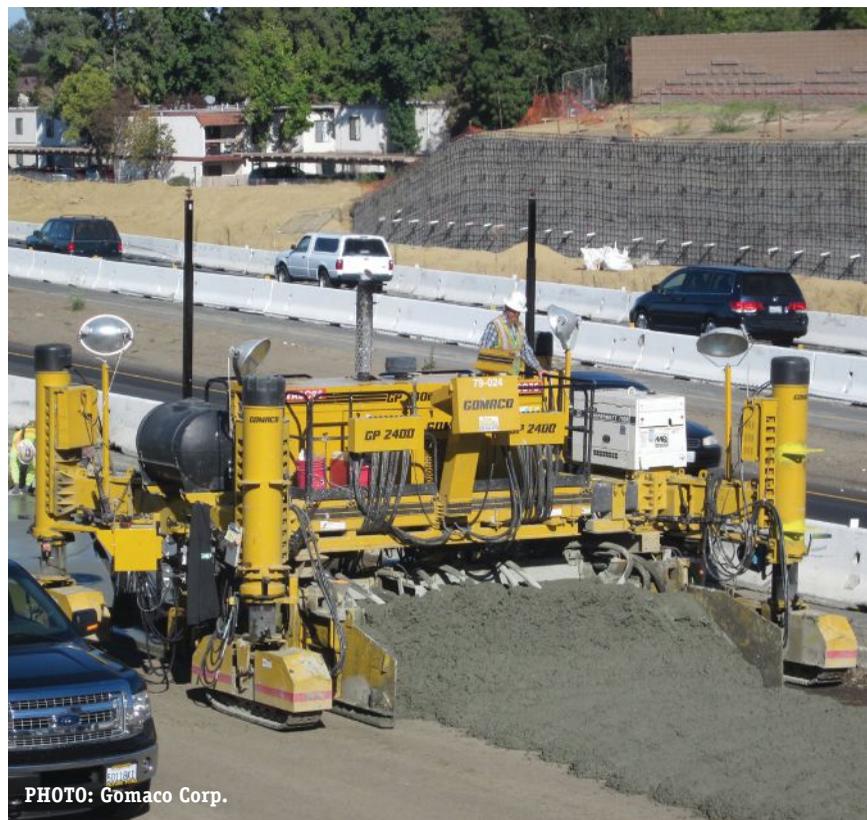


PHOTO: Gomaco Corp.

The volume of concrete Caltrans procures annually for road and bridge contracts raises the stakes for portland-limestone cement, which the agency approved earlier this year.

decarbonization of the cement industry—a crucial material in the built environment, but one of the most challenging industries to decarbonize,” says Senator Josh Becker of San Mateo (District 13), vice chair of the Legislature’s Committee on Climate Change Policies and chair of the Senate Subcommittee on the Clean Energy Future.

In California, greenhouse gas emissions from the production of cement contributes about 8 million metric tons of CO2 each year, equivalent to about 1.7 million cars. Cement production is the second-largest industrial source of GHG emissions in the state, behind only the oil and gas sector. In response, SB 596 requires that a comprehensive strategy be created to achieve net-zero emission cement used in California as soon as possible, but not later than 2045.

“This legislation becomes law,” Senator Becker says, “thanks to the help of the climate and environmental action advocates at the National Resources Defense Council, which partnered with me on the bill, and with support from the California Nevada Cement Association, which shared key input on the industry’s efforts to reduce carbon emissions from cement and was a willing partner in helping to craft SB 596 as it advanced in the Legislature.”

“We believe SB 596 establishes a regulatory framework, with the proper checks and balances, to allow the state and the cement industry to succeed in our common goal of lowering carbon emissions in our economy and reaching carbon neutrality in 2045,” says CNCA Executive Director Thomas Tietz.

Regional climate action groups also mobilized around SB 596: “Senator Becker’s focus on cement is putting California in the lead nationally on our critical need to reduce emissions from this significant source,” said Janet Cox, legislation director for 350 Silicon Valley. “California is big enough, and our infrastructure needs are great enough, that we can influence both other states’ policies and the cement industry nationally.”

SB 596 is the first bill by Senator Becker focusing on the cement and concrete industry. A follow-up bill, SB 778, would add low-carbon concrete to the state’s Buy Clean law in order to help drive demand for the low-carbon cement produced under SB 596.

Additionally, Senator Becker has co-authored SB 905, which tasks the California Air Resources Board with developing a geologic carbon sequestration demonstration initiative and funding one to three projects by January 2026. The projects must reduce air pollution and other co-pollutants from cement facilities that impact the health of local communities.



The CalPortland Mojave plant lies near the southeast foot of the California Central Valley.

CARBON NEUTRALITY PATHWAY

To underscore member commitments to achieving carbon neutrality by 2045, the California Nevada Cement Association charted three pathways to industry-wide emissions reductions, coupled with nine levers. The pathways and levers address eliminating current barriers that limit what actions the industry can take and lifting restrictions on available opportunities. By working with California lawmakers, agency officials, and private market stakeholders such as developers, engineers and architects, CNCA notes, cement producers can proceed with large-scale, long-term investments in emissions reduction toward the 2045 goal.

LEVERS		TIMING <small>If unlocked, time to deploy</small>	IMPACT <small>GHG abatement potential</small>	SUMMARY OF KEY BARRIERS
PROCESS EMISSIONS: 4 LEVERS				
Lever 1	Portland Limestone Cement (PLC)	NEAR-TERM	~10%	CalTrans acceptance necessary (and likely forthcoming).
Lever 2	Carbon Capture Use & Storage (CCUS)	LONG-TERM	>50%	Extremely capital-intensive, requires significant public sector support. Gaps in existing incentives. Time-intensive & contingent permitting.
Lever 3	Alternate Raw Materials (ARM)	MID-TERM	10%-20%	Constrained (and tightening) supply. Testing & investment in natural pozzolans. Public acceptance necessary.
Lever 4	Alternate Cements & Clinkers	LONG-TERM	<10%	Limited supply and specialized production. Not commercially viable or sufficiently tested for large-scale construction. Scarcity of certain materials. Limited substitution potential.
COMBUSTION EMISSIONS & FUEL SWITCHING: 3 LEVERS				
Lever 5	Natural Gas	NEAR-TERM	10-20% (Total Additive Potential)	Not frequently cost-competitive. State-wide storage & supply constraints.
Lever 6	Waste-Derived Fuels	NEAR-TERM		Narrow definition of recycling. Burdensome permitting and public acceptance challenges. Classification of engineered fuels constrains availability and creates costs. Competition w/ landfilling.
Lever 7	Biomass-Derived Fuels	NEAR-TERM		Lack of coordinated & concerted support. Regulatory ambiguity. Burdensome permitting. Limited supply due to insufficient collection and distribution network.
ELECTRICITY GENERATION: 2 LEVERS				
Lever 8	Waste Heat Recovery	MID-TERM	<10%	Financial penalty from departing load charges. Cumbersome permitting with marginal returns. High cost per installed KW.
Lever 9	On-Site Renewables	MID-TERM	<10%	Financial penalty from departing load charges. Limited incentives from rate schedules & electricity programs. High costs (including fees) & limited return.

Solidia secures \$2.1M DOE grant to refine carbon management methods

The U.S. Department of Energy (DOE) is providing \$2.1 million in funding to New Jersey-based Solidia Technologies to develop and test methods for carbonating the company's namesake binder, thus broadening applications of low-carbon manufacturing technologies for building materials. Work under the DOE Office of Energy Efficiency and Renewable Energy grant will especially target processes for producing synthetic supplementary cementitious materials through direct capture and utilization of carbon dioxide from a cement plant flue gas stream.

Investigators will pursue an efficient carbonation method at laboratory scale, performing mortar and concrete specimen tests to determine the SCM's suitability as a portland cement replacement. A carbonated SCM could be added to mixes to create a product yielding similar or better performance when compared to concrete made with commonly used fly ash and ground granulated blast furnace slag.

"We are proud to partner with the U.S. Department of Energy to continue innovating and ultimately deliver on our mission to provide commercially viable decarbonization technologies and sustainable solutions for the global construction and building materials industries," says Solidia CEO Russell Hill, Ph.D. "The DOE funding will advance our carbon capture, use and storage technologies and synthetic SCMs that can be easily integrated into portland cement-based concrete formulations, offering a solution that is sustainable environmentally and economically."



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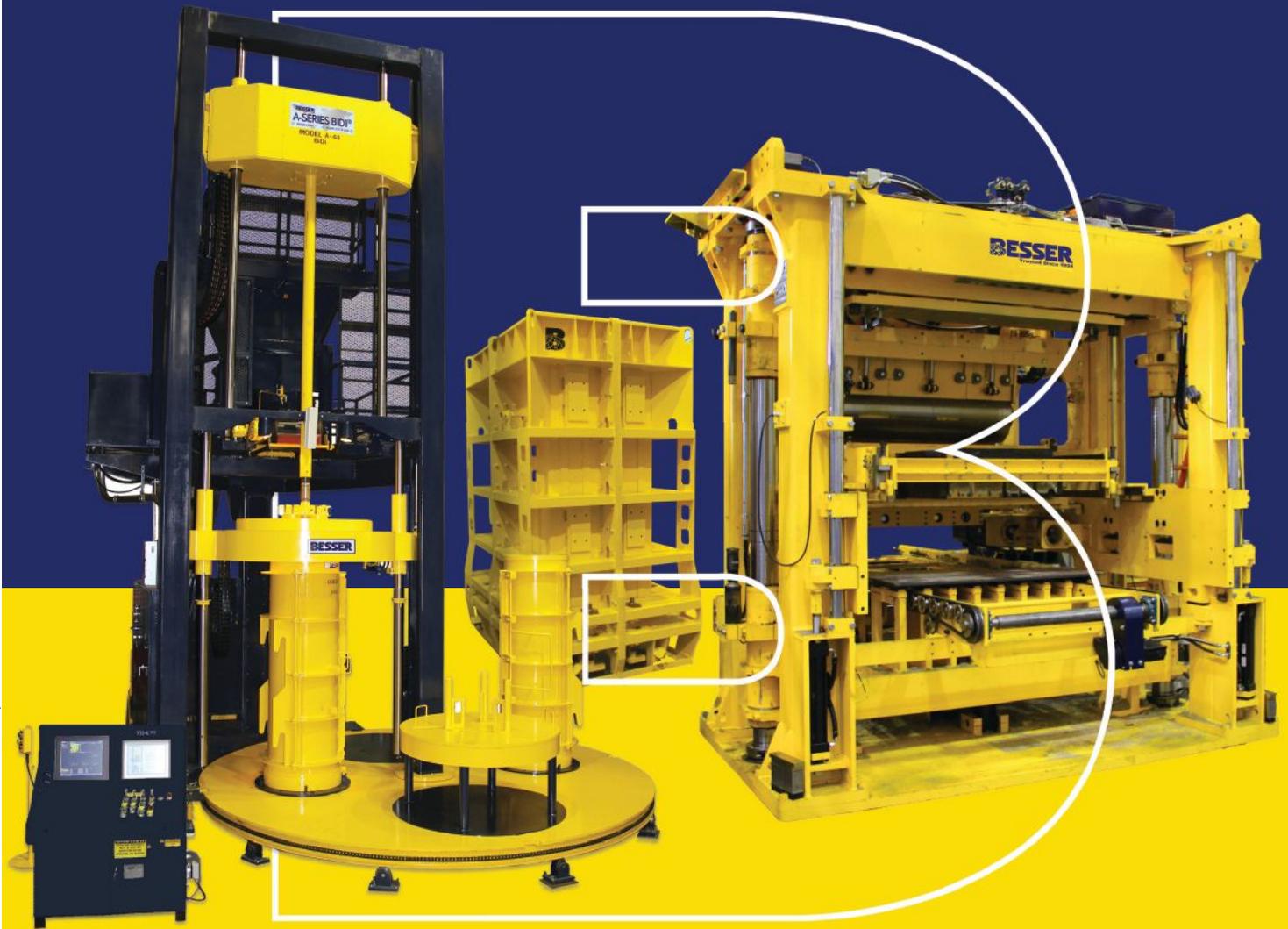
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Programmers complete AASHTOWare Project, ForneyVault interface

Construction materials testing equipment and technology provider Forney LP is preparing release of a ForneyVault-AASHTOWare Project Construction & Materials interface to state departments of transportation. Linking its signature platform and the American Association of State Highway and Transportation Officials software suite, the company notes, “Drives increased transparency, productivity and efficiency—especially pertinent for DOT labs today in light of the Infrastructure Investment and Jobs Act.”

“AASHTOWare is a valuable tool for state transportation agencies, and our integration will provide even more value and convenience to users,” says Forney Vice President, Platform Development Scott Grumski. “With ForneyVault, AASHTOWare Project users will have access to verifiable, unalterable data to better inform material approvals, qualifications, and mix design approvals, all while managing each step of the sample lifecycle. The combination of AASHTOWare Project and ForneyVault will reduce the risk of errors,

increase compliance and drive more positive outcomes for DOTs and partner labs.”

AASHTOWare Project is programmed to span all levels of construction and materials management to progress a contract, along with supporting documentation, from award through finalization. DOT agencies deploying the module will soon be able to access the ForneyVault platform, which leverages a private cloud database to link testing machines, ancillary equipment and third-party software.

The interface will see sample information and testing data automatically flow between ForneyVault and AASHTOWare. “[It] will enable error-prone manual tasks and labor-intensive data entry and paperwork to be replaced by intuitive, automated processes,” notes Forney Senior Vice President, Sales & Marketing Joel Simpson. “This is an opportunity for DOT agencies seeking greater efficiencies and improved productivity that will be demanded as the influx of funding from the Infrastructure

Investment and Jobs Act spurs tremendous project growth.”

To assess the value of the integration, Nebraska, Kansas and Mississippi agencies participated in a seven-month AASHTO pilot. Forney supported the proof-of-concept endeavor by providing engineering support for the interface and the enabling testing machine hardware, including ForneyLink, a touchscreen user interface for manual machines, plus Forney RetroPak, a kit to convert any manual machine to an automatic model.



In addition to being an early AASHTOWare Project Construction and Materials adopter, the Nebraska Department of Transportation recognized the value of the ForneyVault integration and, upon pilot completion, became its first subscriber. “As an agency, we have explored and utilized interfaces with our lab equipment prior to this integration. After building and maintaining a few of our own interfaces, we are excited to have this native integration. We see this as a great way to scale out all our labs that perform compression testing without having to directly build and maintain those interfaces ourselves,” explains NDOT Construction Systems IT Supervisor Ty Carlson.

“From the lab manager and lab technician perspective, the interface of AASHTOWare Project with ForneyVault provides a simpler process, which reduces the risk of data entry errors by the technician,” adds NDOT PCC Materials & Test Manager Tim Krason. “Any time you can eliminate data entry, you can eliminate errors. Technicians agree that the less they have to type, the less chance of error and the less time constantly reviewing what they previously typed. Our lab sees the value of increased efficiency by combining the automatic machine and the AWP/ForneyVault integration.”

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Concrete.ai developers project Q3 2022 software commercialization

Los Angeles-based Concrete.ai is preparing for general release of its pioneering data science platform, programmed to reduce costs and embodied carbon intensity (CO₂e) in concrete construction. Ahead of the launch, the company is filling key management positions and executing a worldwide, exclusive license from the University of California, Los Angeles for the underlying artificial intelligence (AI) and machine learning (ML) technology.

Previewed at World of Concrete 2021 in Las Vegas, the Concrete.ai platform delivers unparalleled reductions in the cost and CO₂e of ready mixed and manufactured concrete by applying AI methods to mix design and production. The result is an optimized, cost-effective concrete that fulfills all engineering performance characteristics, while utilizing locally available raw materials to ensure safety, longevity and code-compliance.

Pilot deployments with a handful of major producers have showed the technology reduces the material costs and CO₂e of concrete by up to 10 percent and 70 percent, respectively. Concrete.ai has announced critical next steps to bring the platform to commercial stage, starting with the addition of engineering and software leaders. They will build Application Programming Interfaces, processes and reporting tools to accelerate customer adoption.

Mathieu Bauchy, who co-founded Concrete.ai with his UCLA Samueli School of Engineering colleague Gaurav Sant, will assume the role of chief technology officer, leveraging experience from developing multiple AI and ML applications related to material design, manufacturing, and optimization. Joining him as head of engineering is David Wegman, who arrives with a track record of building and deploying software systems for planetary health and leading programmer teams at startup, midsize, and Fortune 500 companies.

To increase awareness of its materials-optimizing technology in North America and beyond, Concrete.ai has named to its advisory board:

- Walter Dissinger, who served as CEO of Votorantim Cimentos and in a variety of roles at BASF AG, including president of the Health and Nutrition unit.
- Ian Riley, World Cement Association CEO since 2019. Prior to joining the London group, he was Holcim Ltd. Greater China Country Head, responsible for namesake and Lafarge businesses.
- Pat Ward, most recently CEO for Breendon Group, the United Kingdom's largest independent construction materials operator. He also served in senior leadership roles for 20-plus years at Holcim and Aggregate Industries businesses in the U.K. and United States.
- Ann Klee, most recently executive vice president for Business Development and Government Affairs for Suffolk, a national integrated design, technology and construction company based in Boston. She also served as General Electric vice president for Environment, Health & Safety and Senate Committee on Environment and Public Works chief counsel.
- Mike Mettler, cofounder of RightHandGreen, a climate benefits company, and charter team member at card.io (acquired by PayPal) and AdMob (acquired by Google).

"Mathieu and David bring a level of expertise and experience to product development that will truly drive value in solutions to our customers," says Concrete.ai CEO Alex Hall. "Additionally, having such a formidable advisory group will ensure that we are perfectly positioned for rapid growth and long-term success."



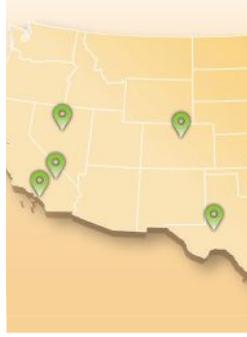
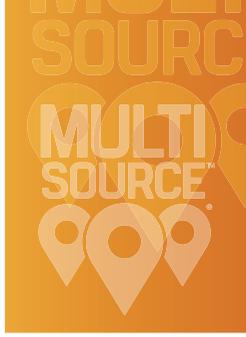
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Contractors' annual workforce development outlays surpass \$1.5 billion

Associated Builders and Contractors member contractors invested \$1.6 billion to provide more than 1.3 million course attendees with craft, leadership and safety education in 2021, up from \$1.3 billion in 2020. The group's 2022 Workforce Development Survey quantifies the scope of member initiatives to advance their employees' commercial and industrial construction careers.

Safety education accounted for the greatest share, or 56 percent, of total workforce investment, while craft education outlays increased significantly to 34 percent of the 2021 total, up from 22 percent the prior year as contractors addressed the need for an estimated 650,000 additional construction workers approaching 2022. General contractors and construction

management firms boosted their share of the total workforce development investment to 65 percent in 2021 from 58 percent in 2020.

"ABC member contractors are building the people who build America by investing billions to cultivate their long-term skill sets, creating a brighter future for their workers and families," says Vice President of Health, Safety, Environment and Workforce Development Greg Sizemore. "Members are investing in flexible, competency-based and market-driven education methodologies to build a construction workforce that is safe, skilled and productive. Continually upskilling our people, our most valuable asset, means the merit shop construction industry is ready to realize the economic gains of the \$1.2 trillion 2021 Infrastructure Investment and Jobs Act."

Among key 2022 Workforce Development Survey takeaways:

- ABC member contractors invested an average of 7.4 percent of payroll on workforce education, or \$112,412;
- Women in management/supervisory roles ticked up to 19 percent in 2021 from 17 percent in 2020, and from 14 percent to 15 percent in craft/trade roles over the same period;
- ABC members educate almost four times as many trade/craft personnel than the next highest positions, field managers/superintendents;
- ABC members invested in safety education for 51 employees, on average; and,
- More than half of respondents, or 61 percent, reported a labor shortage of severe or very severe variety, citing an exodus of baby boomers as the top contributor.

An all-of-the-above approach to workforce development has produced a coast to coast network of ABC chapters and affiliates delivering 800-plus craft, safety and management education programs, including more than 300 government-registered apprenticeship offerings across 20 different occupations.

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Management consultant FMI conducted the 2022 Workforce Development Survey, posted at www.abc.org, earlier this year. Aggregated data was derived by calculating the average amount each respondent spent on education and multiplying that by the total number of ABC contractor members.

CRH builds fencing platform with \$1.9B Barrette Outdoor Living deal



Barrett Outdoor Optic
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Oldcastle parent CRH Plc is set to acquire Ohio-based Barrette Outdoor Living Inc., a leading player in steel, aluminum and vinyl fencing, railing, gate and accent products for residential and commercial applications. It sells and distributes through big box or independent home improvement retail channels and specialty outdoor product dealers.

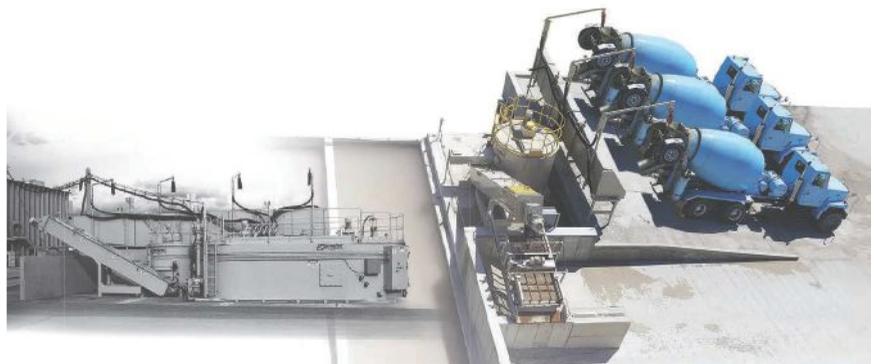
“Barrette is an excellent addition to CRH,” says Chief Executive Albert Manifold. “Architectural Products has been one of our fastest growing businesses in recent years and the acquisition of Barrette complements and enhances our existing offering of sustainable outdoor living solutions in North America. It also demonstrates the continued execution of our integrated solutions strategy to create further value for our customers, business and shareholders.”

CRH projects a second half of 2022 closing on the \$1.9 billion transaction with Barrette Outdoor Living owners TorQuest Partners, Toronto, and Caisse de dépôt et placement du Québec, Montreal.

Announcement of the deal follows CRH’s recent sale of the BuildingEnvelope business and demonstrates the continued execution of a strategy driving “active portfolio management and the efficient allocation and reallocation of capital.” The BuildingEnvelope deal was consummated with KPS Capital Partners, a New York private equity firm, and included a \$3.45 billion cash payment, plus transfer of \$335 million in lease liabilities. Over a 25-year ownership period, Oldcastle grew the Santa Monica, Calif.-based business into a major architectural glass and glazing system producer for low- to high-rise commercial buildings in the U.S. and Canada.

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Holcim invests in Blue Planet carbon dioxide-mineralizing technology

Holcim North America has taken a financial position in Blue Planet Systems Corp. of Los Gatos, Calif., joining three other marquee investors that have announced stakes in the carbon capture, use and storage (CCUS) technology developer since 2020: Knife River Corp., Mitsubishi Corp. and Chevron. Their capital supports commercialization of a process that mineralizes carbon dioxide

gas into synthetic limestone aggregate, potentially negating other embodied carbon factors when used in concrete.

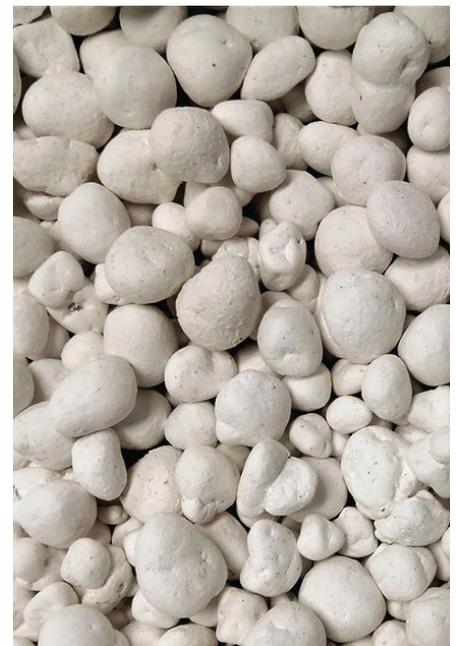
“Being at the forefront of driving sustainable actions in our industry requires continuous innovation and partnerships,” says Holcim North America Region Head Toufic Tabbara. “Our investment offers a critical opportunity to influence the

development of future technologies in the CCUS space. At the same time, we grow our network of like-minded companies with a strong focus on net zero to amplify global efforts along with other Blue Planet investors.”

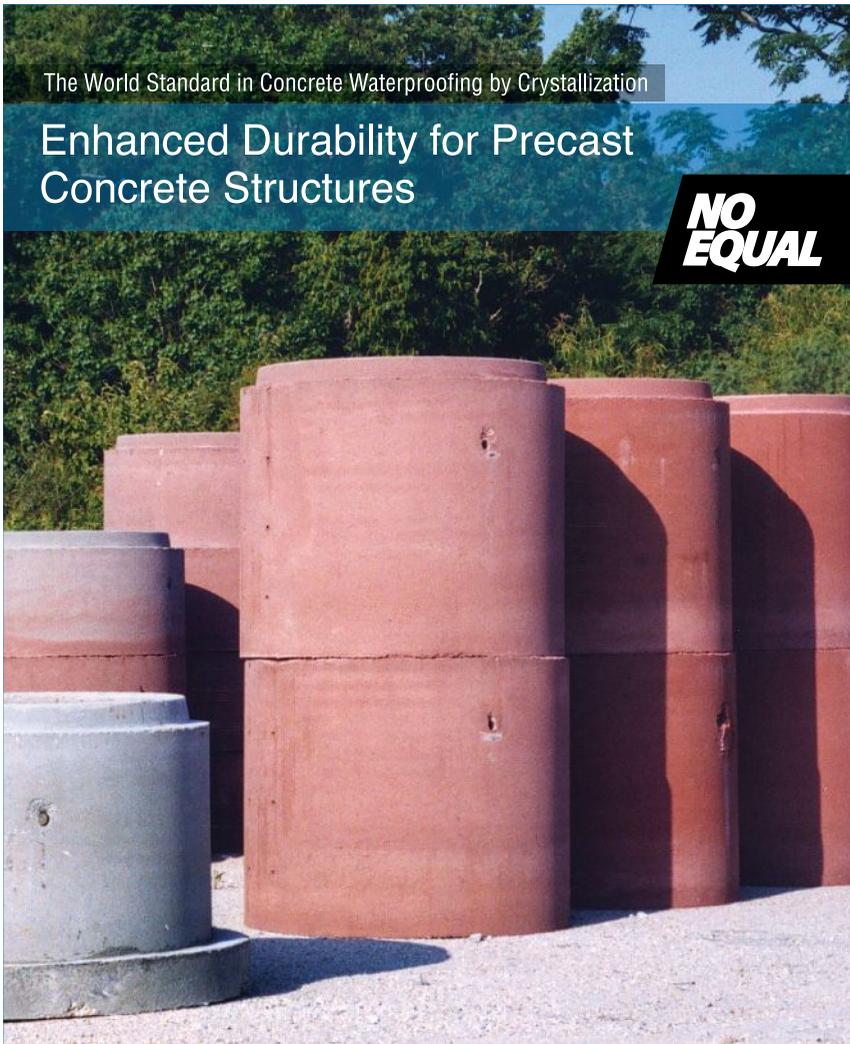
The companies will initiate a multi-year strategic collaboration to identify mineralization targets to further lower the carbon footprint of Holcim US and Lafarge Canada cement, aggregate and concrete production—with the potential to expand to other Holcim Group operations around the world.

“This is an important step for us in North America,” notes Lafarge Canada CEO David Redfern. “Our vision is to transform our St. Constant Plant in Montreal into a carbon campus that ultimately advances commercialization of mineralization technologies. We look forward to advancing our Net Zero strategy by leveraging mineralization technology that allows us to use the CO₂ from our own cement plants to produce carbon neutral or carbon negative sand and gravel products.”

“By focusing on the aggregate component of concrete, our technology can have a more impactful influence on the embodied carbon in concrete than the traditional focus on reducing cement component alone,” affirms Blue Planet CEO Brent Constantz, PhD. “Collaborating with Holcim enables us to apply our mineralization technology to large-scale cement operations where we expect it will more squarely address CO₂ emissions.”



Each tonne of Blue Planet calcium carbonate aggregate can capture and sequester up to 440 kg., or 920 lbs., of carbon dioxide gas.



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Holcim to test electric powertrains in South Central tractor fleet



IMAGES: Hyliion Holdings Corp.

Holcim US has spec'ed Hyliion Hypertruck ERX electric powertrains for 10 tractors serving Texas and Oklahoma cement and concrete operations, plus sister roofing product businesses. Batteries powering the Hypertruck ERX draw from an onboard generator running on compressed natural gas (CNG) or renewable natural gas (RNG), consumption of which compares favorably against diesel fuel when measuring carbon dioxide emissions.

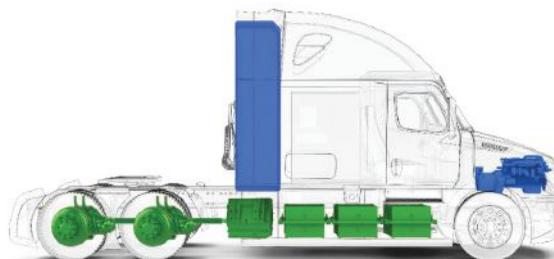
Holcim US is among the first customers of Austin, Texas-based Hyliion Holdings to apply the battery electric powertrain concept to construction materials-gear vehicles.

The Hypertruck ERX spec, notes Holcim US Aggregates & Construction Materials CEO Jay Moreau, "underscores the direction Holcim is taking around the globe to reach our sustainability and environmental goals. By integrating sustainable technologies like electric vehicles into our operations, we are able to build on a promise of making greener cities, reducing emissions and driving the circular economy."

The producer's battery electric powertrain trucks will be delivered in 2023-24. They will join field trials Hyliion plans as part of a Hypertruck ERX validation phase leading to Environmental Protection Agency, National Highway Traffic Safety Administration and California Air Resources Board certifications.

"The Hypertruck ERX can be a transformative solution for an organization like Holcim that demonstrates such a strong commitment to green solutions," notes Hyliion CEO and Founder Thomas Healy. "Hyliion and Holcim share the ambitious goal of transforming our respective industries. [Our] mission is to facilitate major change in commercial trucking, a large contributor of greenhouse gas emissions, and we intend to achieve that with a solution that supports the environmental goals of sustainability-minded fleets without sacrificing their business needs."

Hyliion engineers the Hypertruck ERX for integration on major Class 8 brand day cab or long-haul models. The Holcim US order combines the battery electric powertrain and Peterbilt 579s. The ERX launch dovetails ongoing ramp up of national CNG fueling infrastructure—700-plus stations to date for commercial truck fleets. Concurrently, station operators have tapped into a growing supply of RNG, derived from dairy farm digesters and other major methane emissions sources. RNG processed from dairy farm sources amounts to a carbon-negative fuel due to methane's exponentially higher greenhouse gas signature compared to carbon dioxide emissions from diesel fuel consumption.



The Hyliion Hypertruck ERX concept calls for back of cab-mounted compressed natural gas tanks fueling a generator below. The latter charges rail-mounted batteries supporting an electric engine mounted similarly to a diesel model in a Class 8 chassis.

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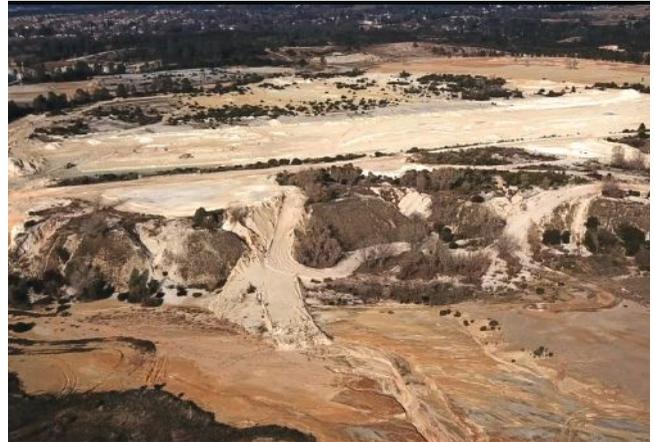
SCM developer Purebase eyes California market in major-producer partnership

Natural resource-minded Purebase Corp. has entered a strategic partnership with a major integrated materials producer to commercialize an eco-friendly, supplementary cementitious material especially suiting the California market. The partners will test a kaolin clay-based SCM processed at Purebase's pilot plant in Ione, Calif., where efforts to date have been concentrated on augmenting concrete mix designs calling for Type II or Type V portland cement. The material has the potential to substitute fly ash and slag in concrete mix designs, and replace portland cement at 20 percent to 40 percent rates.

Early phase I testing will see development of sales data and product information required for certain materials certifications, most notably those of the California Department of Transportation (Caltrans)—all ahead of establishing a larger, commercial scale processing line. "We believe our new SCM blends represent the next generation of environmentally responsible cement and building products," says Purebase Chairman Scott Dockter. A partnership with one of the biggest building materials sector companies, he adds, "represents a major leap forward."

Purebase holds rights to access up to 100 million tons of certain raw clay materials from U.S. Mine LLC, owner of the kaolin-rich deposit in Ione. Working with Denver laboratory CTL Thomson Inc., Purebase has demonstrated that its SCM meets or exceeds the requirements of ASTM C618, Standard Specification for Coal Fly

Ash and Raw or Calcined Natural Pozzolan for Use in Concrete, and C1157, Standard Performance Specification for Hydraulic Cement. Testing for the latter indicated that the kaolin-based agent exhibits less than 0.01 percent expansion and—specific to Caltrans standards—proves highly effective at mitigating reactive aggregates in concrete or mortar.



The Ione kaolin mine is nestled in the foothills of the Gold Country, 45 minutes south of Sacramento.



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Lehigh White Cement parent builds out UHPC binder series

Italy's Cementir Group presents the just-launched Aalborg InBind as a flexible white binder enabling manufactured-concrete producers to optimize ultra-high performance mix designs leveraging locally available materials. Based on FutureCem technology formulations—heavy on limestone and calcined clays—InBind supports the recently introduced InWhite Solutions packaged concretes and mortars. The binder is premiering in Europe with potential distribution in North America through Lehigh White Cement, Florida-based Cementir subsidiary and Aalborg Portland sister company.

“We are proud to accelerate Ultra High Performance Concrete technology utilization by launching InBind, which is the valuable complement to our existing range,” says Cementir Group Chief Sales, Marketing and Commercial Development Officer Michel Di Marino. “The scaling-up on UHPC technology depends mainly on the stable supply of supplementary cementitious materials. Besides, the specific needs of local projects have led precasters to look for their own UHPC by using local aggregates and chemical admixtures. UHPC development is complex and time-consuming with a high trial-and-error cost, requiring large amounts of SCM materials that are often in short supply. InBind is set to meet the market needs by providing a flexible and user-friendly binder solution.” — www.aalborgwhite.com



Cementir and Aalborg Portland technical teams cite InBind concrete specimens attaining 24,000 psi compressive strength. Their best performing mixes have been designed with 0.25 water-binder ratio, optimized aggregate packing, and self-consolidating properties.

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Xypex CEO offers full-throated view of industry's bright future

The innovation behind the crystalline waterproofing technology synonymous with Vancouver, B.C.-based Xypex Chemical Corp. is featured in "Concrete Solutions Provided by Admixtures," an *Inside the Blueprint* series episode airing this month on Bloomberg News and in syndication after. Producers explore how the technology works

deep inside the concrete mass to create a permanent waterproof structure that resists extreme hydrostatic pressure and self-heals cracks that can form. Xypex CEO Chris Miller proves that concrete is unrivalled as a building material, used in millions of building projects around the world and—where exposure warrants—protected by

crystalline waterproofing methods.

In this season's "Focus on Innovation," *Inside the Blueprint* examines critical steps leading to cutting-edge products: Inspiration, the Idea, the Process, and the Impact. Producers trace them with Xypex officials, who explain how their admixture significantly extends the life of concrete structures 50 to 100 years using an environmentally friendly formulation. Beyond concrete and chemistry, they approach construction as a "people business" through extensive customer support and longstanding relationships with architects, engineers and contractors in 90-plus countries.



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Xypex chief takes the *Inside the Blueprint* production crew inside concrete.

SIKA OPENS VIRGINIA ADMIXTURE PLANT

New Jersey-based Sika Corp. has expanded concrete admixture capacity in the growing Mid-Atlantic construction market with a 42,600-sq.-ft. production facility in Stafford, Va. Two 6,000-plus gallon mixers equip the new plant for 50,000 tons' annual capacity. Along with responding to high demand in the region, the operation guarantees optimized logistics, shorter transportation routes for raw materials and finished goods, and carbon dioxide emissions reduction that concrete customers are increasingly tracking in their supply chains.

"The latest investment in the Mid-Atlantic allows us to further strengthen our position in the region's construction market," says Sika Concrete Admixtures Senior Vice President Thomas Strittmatter. "This is our response to high demand in the region. It allows us to get our products to valued customers quickly and more efficiently, all while reducing our environmental impact."

"Sika is committed to ensuring the production of consistent quality products," adds Vice President of Concrete and Mortars Operations Tim Whitehead. "Customers can be assured that the Stafford facility utilizes the latest manufacturing equipment, systems, and quality standards."



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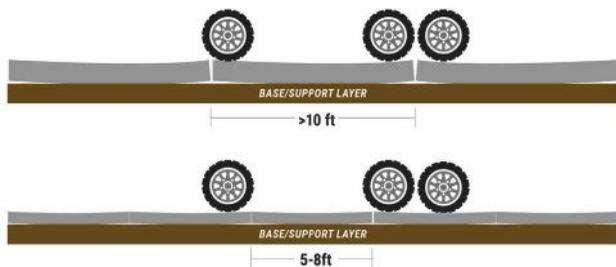
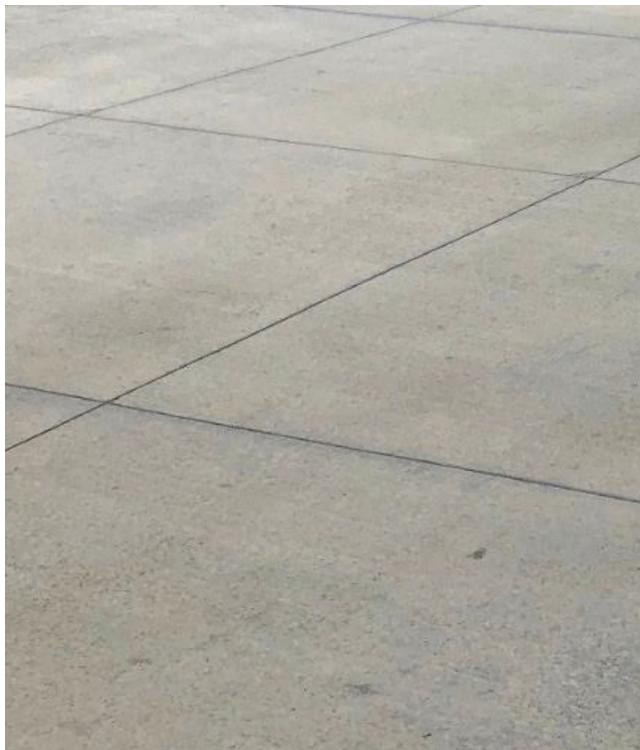
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Forta adds concrete pavement intellectual property in TCP, OptiPave deal

Pennsylvania-based synthetic reinforcing fiber specialist Forta Corp. has acquired the TCPavements brand and companion OptiPave software. The manufacturer plans to expand the use of the TCP industrial pavement engineering and jointing methodology, where no more than one wheel or axle loads the same plain concrete slab at any time.

Developed in Santiago and applied in 15 countries, the TCPavements/OptiPave technology affords increased pavement service life and reduced maintenance, minimizes curl, and eliminates the need for dowels and rebar. Forta will promote the use of its flagship macro synthetic fiber, Forta-Ferro, in tandem with the TCPavements/OptiPave package. Business Development and Pavement Engineer Sherry Sullivan, ssullivan@fortacorp.com, is overseeing the technology assimilation and promotion. — www.forta-ferro.com



OptiPave software predicts heavy duty slab performance over time. Its design optimization capability results in a thinner than normal cross section plus a joint configuration that curtails instances of simultaneously loading of both panel edges.

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RMC Foundation strength predictor model picks up where Duff Abrams left off

The latest RMC Research & Education Foundation report, "A Concrete Strength Model to Optimize Concrete Mixtures," and companion Excel tool equip producers and practitioners to pinpoint appropriate binder dosages and limit potential overdesign as measured in 28-day concrete specimen compressive strengths exceeding psi targets.

Report author and Florida consultant Edwin J. Dunstan Jr. refined his model based on observations from years of portland cement and fly ash research. He evaluated it by subjecting 27 mixtures to strength prediction testing at the National Ready Mixed Concrete Association Research Laboratory in College Park, Md. Dunstan cites limitations of equations or laws that have informed cement and concrete strength prediction or modeling for more than a century. Most notably, he examines the water-cement ratio principle Duff Abrams advanced in 1918 from his Chicago lab, plus the respective 1892 and 1926 work of French and German contemporaries R. Feret and J. Bolomey.

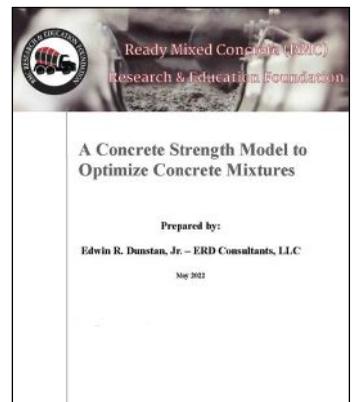
In light of differences in modern concrete mix designs and materials versus those of 100 years ago, Dunstan stresses "Hydration is key." The Feret, Abrams and Bolomey models, he contends, "do not include maturity that accounts for the increase in strength due to the hydration of cement and supplementary cementitious materials. [They] also assume that the degree of hydration of cement at 28 days is the same for all water-to-cement ratios." He questions the degrees of cement or binder hydration in two sample mixtures, each with 242 lbs. of water, but one with 500 lbs., the other 600 lbs. of cement—equating to 0.48 and 0.40 water-cement ratios. "Is the degree of hydration of cement in these two mixtures the same?" Dunstan observes.

The relationship between w/c ratio and hydration is the "key" he uses to produce a workable concrete strength model. It explains how a) admixtures influence the hydration of cement; b) water reducing admixtures increase strength; c) the filler effect (nucleation) increases the amount of cement hydration; and, d) changes in temperature affect concrete strength. Dunstan's methodology requires sequential trial batch testing to determine parameters appropriate to the concrete mix design materials being used. Once parameters are established, the strength of other mixtures within the tested constraints can be predicted, leading to material and cost savings for each yard of concrete.

"This model will allow producers to improve their bottom line while also ensuring quality and sustainability," notes RMC Foundation Chairman Rodney Grogan (Dunn Investment Co./MMC Materials).

"The concrete strength model is another tool in the ready mixed concrete producer's toolbox," adds Foundation Executive Director Julie Garbini. "The Foundation's mission is to improve quality, sustainability and professionalism in the industry and this new, free deliverable meets all those marks."

The report and Excel spreadsheet model are available for download at www.rmc-foundation.org.



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Mapei, Black Buffalo 3D “ink” R&D, production partnership

A recently formed strategic partnership between Nexcon 3D construction printer provider Black Buffalo 3D Corp. and admixture supplier Mapei Corp. has its first commercial product. The launch of Planitop 3D, a packaged, cement-based ink/mortar, times with a project spelling significant initial scale: Affordable-home builder Alquist 3D will use a Nexcon printer and Planitop 3D on a 200-unit community in Pulaski, Va.

“[Our] team recognized the need for standardization in materials to drive the next phase of growth in the 3D construction industry,” explains Michael Woods, chief executive officer of Black Buffalo parent Big Sun Holdings, New York. “Mapei was able to enhance the formula our team developed and take it to the next level. [Planitop 3D] makes printing homes, buildings and infrastructure financially feasible on nearly every level.”

“Structures printed with Planitop 3D and Black Buffalo Nexcon printers represent technology at its most compassionate, creating a more affordable housing market,” adds Mapei CEO Luigi Di Geso. “We are proud to be involved in this evolution in construction and housing.”

The Planitop 3D and Pulaski community announcements follow extensive material and equipment testing. Mapei enlisted Intertek in York, Pa. to verify that the ink/mortar meets acceptance criteria of the ICC-ES AC509 – 3D Automated Construction Technology for 3D Concrete Walls standard. Black Buffalo tested the material’s fresh and cured properties in Elizabeth, N.J., where Nexcon models printed demonstration structures during 13-hour cycles.

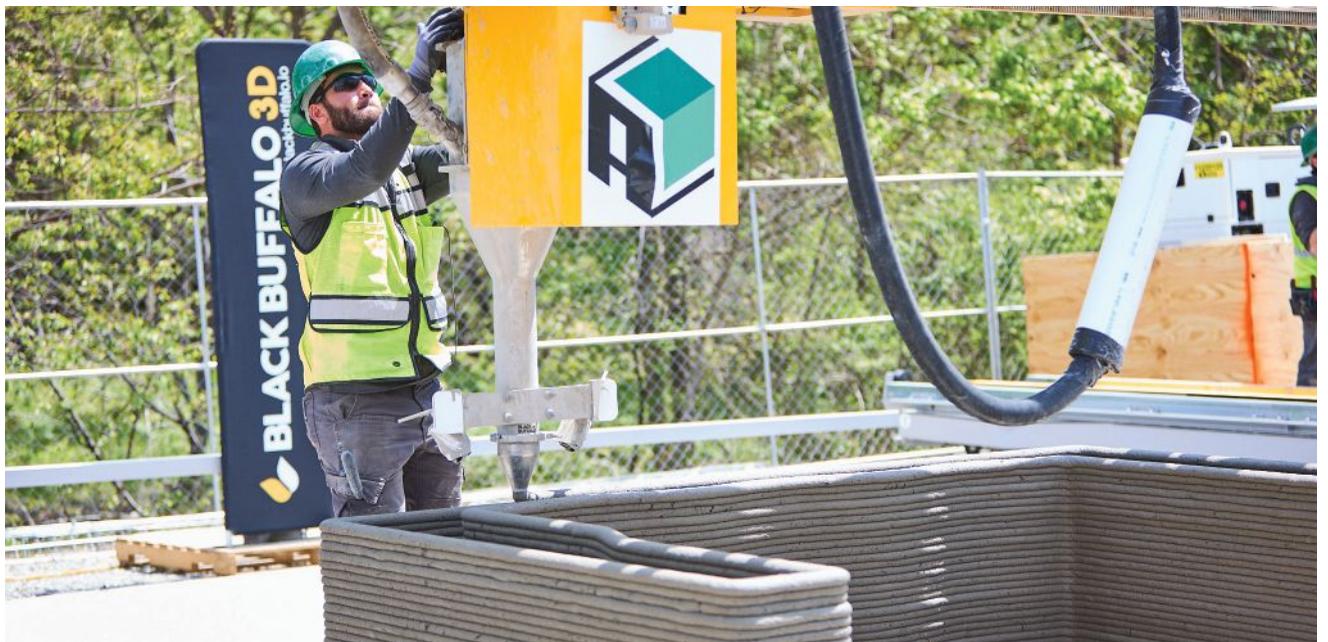
Mapei America tailored the concrete or mortar ink mix design around rheology and strength development characteristics attending the Black Buffalo Nexcon 3D printer nozzle output and speed.



Black Buffalo, Mapei and Alquist 3D officials stage a demonstration of Nexcon/Planitop printing methods planned for Project Virginia, a 200-unit Pulaski, Va. development. (below) With an assist from colleague Aiman Hussein, director of Printing Technologies, Alquist 3D CEO Zachary Mannheimer (right) enlightened Virginia Governor Glenn Youngkin on the economy of 3D-printed concrete walls for home and building owners.



PHOTOS: Alquist 3D



PRINTER RENTAL, FINANCING SOLUTION

A new Black Buffalo Corp. subsidiary, BB3D Financial, cites the world's first turnkey solution for financing and renting large scale 3D construction printers. Builders of all sizes around the globe can try technology without a large capital investment and quickly scale their operations. Rental clients will also be eligible to apply a partial credit toward purchase of their own Black Buffalo Nexcon printer with BB3D Financial's rent-to-own program.



Nexcon 3D model prints Planitop 3D mortar.

"In speaking with leaders in commercial and residential construction, our team recognized that most of the heavy equipment and machinery on a job site was rented, not owned. Why should 3D construction printers be any different?" says Michael Woods, chief executive officer of Big Sun Holdings Group, Black Buffalo 3D parent. "BB3D Financial will eliminate another barrier of entry for companies on the verge of starting 3D construction projects and help clearly define the cost savings possible with our Nexcon printers."

The new entity was created in response to the demand Black Buffalo 3D received after launching the Nexcon 1G printer. Large scale 3D printers are a natural fit for financing and rentals allowing them to become another tool in the arsenal of a builder or developer—akin to a crane, excavator or bulldozer. The new venture is in line with Black Buffalo 3D's mission to increase adoption and acceptance of printing technology and differentiate itself as a leader in 3D construction equipment. Rental terms start at three months for domestic and six months for international businesses. Long-term financing and leasing will also be offered.

"According to the American Rental Association, 93 percent of all construction firms rent equipment so we created a solution to 'product fit' the industry as it already exists," observes Tim Murphy, a 25-year equipment leasing veteran who Black Buffalo 3D has tapped as BB3D Financial president. "This dramatically lowers the entrance cost into 3DCP and opens the doors for all layers of the industry to join us in the 3D construction printing revolution."

"As our 3DCP industry continues to evolve, one opportunity is clear: the great need for leasing and rental of 3DCP machines. Black Buffalo 3D's rental and finance options will allow thousands of academic institutions, construction companies, and small businesses to grow their education about this industry and test out their designs and ideas. BB3D Financial will be the catalyst for 3DCP adoption, and Alquist 3D is excited to be their first client of many," adds inaugural client Zachary Mannheimer, chief executive officer of Virginia-based builder Alquist 3D.



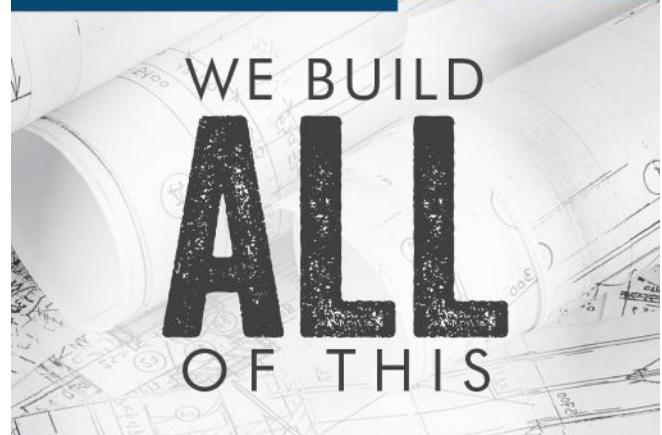
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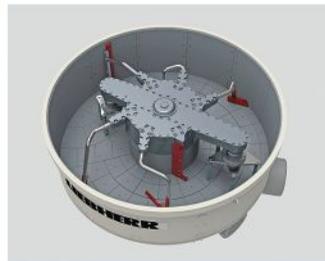
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Foley Products prepares to restart Georgia pipe and precast operation

A key player in Southeast drainage construction markets, Foley Products Co. plans to resume operations this month at a previously dormant Waco, Ga. concrete pipe, box culvert, manhole, vault and specialty structures plant. The facility is projected to add 100,000-plus tons' capacity in the long term, serve primarily Georgia and Alabama accounts, and bring 50 jobs to the Haralson County area.

"We are a customer-centric organization, and the decision to invest in equipment and infrastructure to restart the Waco facility reflects our commitment to serve the growing needs of our customers with high quality products and best-in-class service," affirms President Frank Foley.

Based on a 70-acre parcel, the Waco plant is one of 16 Foley Products sites fabricating structures or elements for drainage, water management or road construction applications across infrastructure, residential and non-residential markets.



Foley Products shipped 12- to 48-in. diameter concrete pipe, plus precast inlets, junction boxes, catch basins and headwalls for storm sewer infrastructure on a private Alabama industrial site.

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Hardscapes distributor Outdoor Living Supply, Rochester, Minn. has acquired The Rock Garden of Truckee, Calif., a division of Marsh Ventures Inc. Founded in 1998, the independent distributor of natural stone, hardscapes, architectural elements and hand-hewn stone furniture extends the OLS platform into the Golden State and strengthens its regional presence in the Lake Tahoe market.

"With its proximity to our Parker Hardscape Supply location, The Rock Garden is an exceptional fit," says OLS CEO Brian Price. "The combined strength and resources of these two locations will allow us to form the region's market-leading platform, delivering best-in-class customer service to the Lake Tahoe and High Sierra markets."

"We are proud of the business we have built and confident OLS will be an excellent steward of our partnership legacy," adds Marsh Ventures President Brian Marsh. "OLS shares our commitment to providing an exceptional customer experience, along with providing growth opportunities for employees, customers, and suppliers alike."



The Rock Garden carries natural stone and concrete hardscape units.



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Big Apple GC Trident elevates safety practice with load navigator

Crane load stabilization and precision hardware developer Vita Inclinata has delivered the first of two 20-tonne Vita Load Navigator systems to New York City's Trident General Contracting. The commercial concrete contractor will utilize the VLN-20s for 9 Dekalb Avenue, a 1,066-ft., 73-story building in Brooklyn, and anticipates similar deployment on a 995-ft., mixed-use tower on Fifth Avenue in Midtown Manhattan.

"New York City is the home of the skyscraper, and at any given time has in excess of 30 tower cranes erected," says Trident CEO Patrick Murphy. "Our risk assessment matrix identifies crane operations as an inherently dangerous activity. Taking the man out of the pick-and-drop zone during dynamic movements only makes sense. Once the industry sees the efficiency and safety value of the VLN system, we anticipate widespread adoption."

The remotely operated, suspended load system affords crane operation crews precision control to orient their lifts without being in the critical path of the load. It dynamically adjusts to load sizes, crane movement, and wind conditions, allowing high-precision lifts in the most challenging environments. However, Murphy underscores the following features as particularly valuable to his teams: Self-contained with no field maintenance required, and ease of use, deploying within five minutes.

"Construction companies operating cranes must use all available technology to help keep their workers safe," notes Vita Inclinata CEO Caleb Carr. "Trident is a progressive organization that puts the safety of workers first." — Vita Inclinata, Broomfield, Colo., www.vitatech.co



Vita Inclinata VLN-20

WEBCOR BUILDERS PARENT TESTS AUTONOMOUS TOWER CRANE

Innoviz Technologies, Tel Aviv-based provider of high-performance, solid-state LiDAR sensors, and Obayashi Corp., the Tokyo parent company of California's Webcor Builders, continue to push the envelope in automated construction equipment possibilities. A recently tested tower crane system is adapted from Obayashi's autonomous solutions for earthmoving and concrete work. The construction giant began using Innoviz's LiDAR in 2018 and is currently developing a full-scale system for sites throughout Japan. Its recognition software extracts data generated by Innoviz's LiDAR to measure the exact distance from objects and identify people and equipment in construction areas. Data can trigger a series of step-by-step warnings to the crane operator, which enhances safety and fosters a streamlined and efficient process.

Using Innoviz's LiDAR together with Obayashi's proprietary software has resulted in substantial savings related to manual crane operation. "This is a cutting-edge solution and a true testimony that our LiDAR can be used in a significant number of cases," says Innoviz CEO and Co-Founder Omer Keilaf, who credits Japan distributor Macnica for facilitating the Obayashi partnership and autonomous construction equipment solutions development.



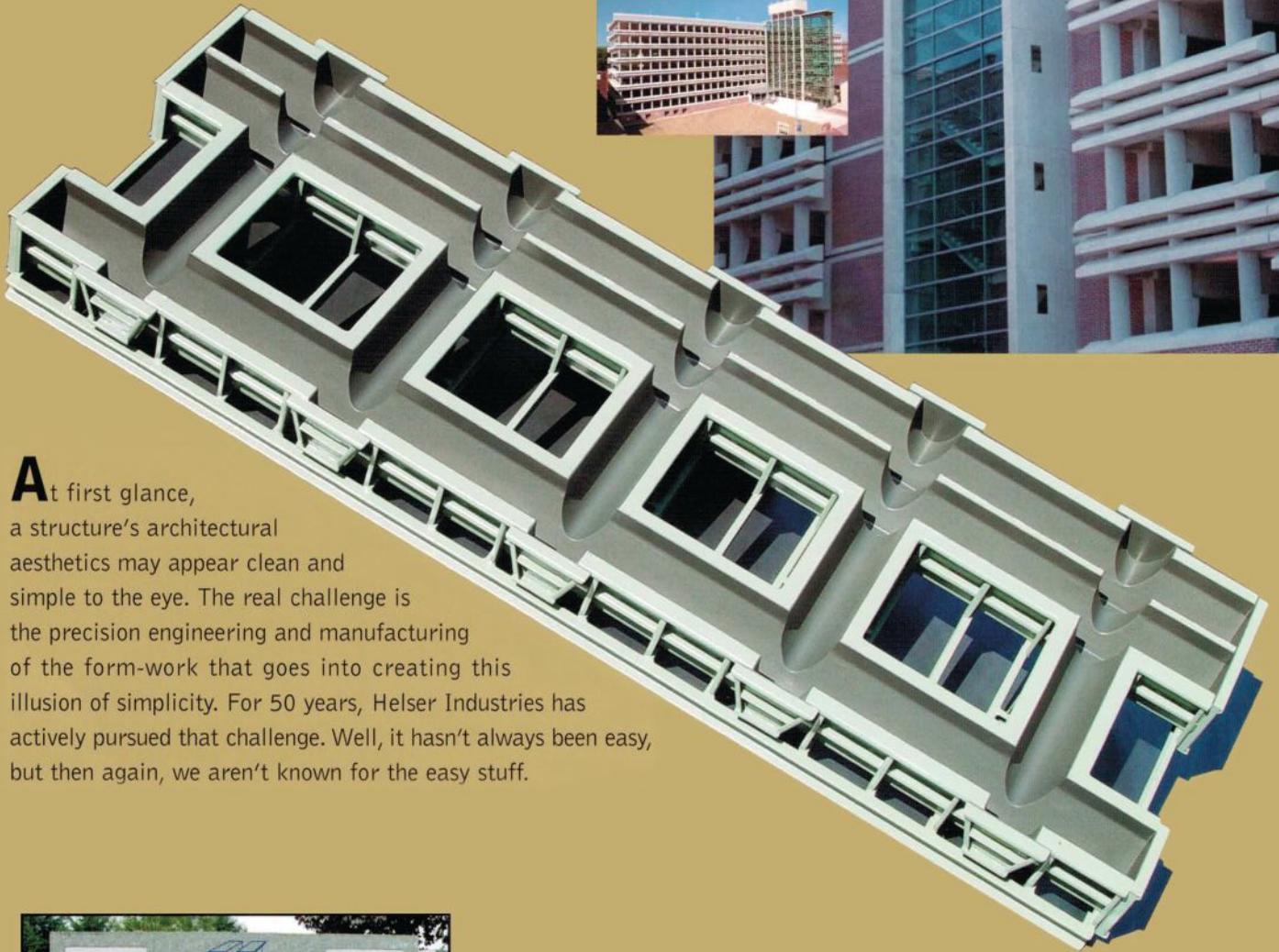
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Second ACI Resource Center opens on O'Hare International periphery

The American Concrete Institute's new Resource Center – Chicago/Midwest will help meet the region's increased demand for knowledge through hands-on training, educational offerings, and on-demand ACI Certification Program access. The facility is the second of its kind, following a charter Resource Center opened two years ago in southern California. Both offer a diverse array of custom training programs designed to communicate required skills and demonstrate test methods in order to achieve certification. In addition to custom training programs, the Chicago/Midwest Resource Center offers programs on popular industry topics such as design, fundamentals, repair and slabs.

"The newest Resource Center is strategically located to expand access to ACI knowledge in a large market of the concrete construction industry," says ACI Executive Vice President Ronald Burg, PE. "We're eager to bring regularly scheduled and on-demand certification programs, educational seminars, and hands-on training to the region."

Initial certification events have included Concrete Field-Testing Technician; Concrete Strength Testing Technician; Adhesive Anchor

Installer; Post Installed Concrete Anchor Installation Inspector; Masonry Laboratory Testing Technician; and, Masonry Field-Testing Technician. Information on upcoming classes, certification programs and events can be obtained from Midwest Resource Center staff, 248/516-1112, or Midwest.ResourceCenter@concrete.org.



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A new infrastructure investment era will have state, local and federal agencies from coast to coast looking for qualified design-build teams to deliver the most cost and time-efficient projects, according to the Design-Build Institute of America, Washington, D.C. Finding them will be as easy as a click of the mouse with the launch of DBIA's Industry Match, billed as the only online directory allowing users to search for qualified design-build firms by region, market, specialties and project type.

"Owners consistently contact us for lists of design-build and MWDBE firms, and those providing owner advisor services," says DBIA Executive Director Lisa Washington. "General contractors also turn to DBIA for access to potential team members, particularly specialty contractors and sub-consultants. This new online directory will allow design-build firms to find potential partners and owners to find experienced design-build teams." DBIA Industry Partners lead the practice as "Design-Build Done Right" professionals across all sectors and professions, she adds.

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The Charles Pankow Foundation is expanding the benchmark "Professional's Guide to Managing the Design Phase of a Design-Build Project" for use beyond building contracts. The publication has been a go-to resource for professionals looking to achieve greater design-build project delivery success, formalizing the design phase manager's role to lead typically compressed cycles. Use of the DB model presently extends to nonbuilding projects and the responsibility for managing the design phase is no longer consolidated into a single role. In addition, the industry is rapidly changing in ways that affect the design phase, including design-assist through specialty trades, BIM execution planning, and offsite construction techniques.

The Pankow Foundation's new project will bring together academics and industry experts to produce an expanded suite of design management publications, based on the Professional's Guide, second edition. They will prepare owners, designers, and builders to be leaders of innovation on DB projects. To advance these efforts, the Foundation has awarded research grants to University of Florida, Principal Investigator (PI) Bryan W. Franz, Ph.D. with co-PI Daniel Hall, Ph.D. of ETH Zürich; Iowa State University, PI Jennifer Shane, Ph.D.; and, University of New Mexico, PI Susan Bogus Halter, P.E., Ph.D.



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Safety cap specialist documents rebar, stake impalement liability

A new white paper from Temecula, Calif.-based J-Cat Safety Products addresses the use of rebar, metal forming stake and exposed bracket caps for California concrete practitioners and peers subject to Occupational Safety and Health Administration standards. "Impact of Plausible Deniability" describes the financial consequences, starting at a reported \$18,000 per incident, employers might face if they fail to comply with OSHA and California-OSHA provisions surrounding bars, stakes or brackets prevalent in concrete work.

"As we spoke with members of the construction community, we found a lot of confusion surrounding the requirements for job site safety, specifically impalement protection," says J-Cat Chief Operations Officer Kristin Messer. "This report should help to clear up misconceptions regarding this important issue." The impalement protection device—the first to be certified by Cal-OSHA (C-1741-AG)—can mitigate financial ramifications should federal or state agency job site inspectors find exposed metal protrusions, she adds.

Posted at www.jcatsafetyproducts.com, "Impact of Plausible Deniability" underscores the importance of rebar or forming stake impalement protection.



INVESTOR SHORES UP GROWTH PLAN FOR FORMWORK SERVICES

GP Capital Partners LP has announced a \$10.9 million investment in Formwork Services and Supply LLC, an independent provider of complete concrete forming and shoring solutions to the industrial, petrochemical, water treatment, power, infrastructure, sports, medical, and commercial building construction markets. Both businesses are based in Houston.

The investment consists of \$8 million in senior secured term debt and \$2.9 million in common equity, and was part of a transaction led by Freeport Partners to position Formwork Services for a new phase of business development. "[Freestone and GP Capital Partners'] experience supporting small businesses will be invaluable as we accelerate our growth," says Formwork Founder and CEO Mike Bishop. "I look forward to strengthening our offerings and delivering best-in-class service to customers for years to come."

"Formwork Services is an impressive company and highly regarded in the marketplace. We look forward to being a strategic partner to Mr. Bishop and the Formwork team, building on the strong foundation laid over the past 40 years," adds Freestone Partners' Scott Clingan.

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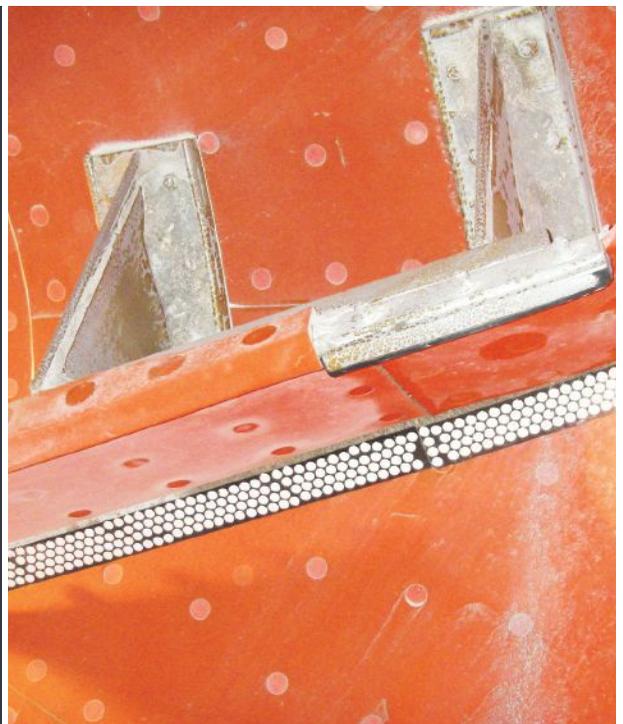
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PRODUCERS



Hamed Maraghechi

CalPortland Co. has appointed Hamed Maraghechi to the new position of Central Research Laboratory director. Based at the producer's Center of Technical Excellence in southern California, he will conduct new research and testing related to issues

such as carbon reduction and sequestration to help the company achieve its commitment to lowering greenhouse gases. He will also oversee all advanced analytical services for customers and internal operations.

"Hamed brings valuable experience to CalPortland which will provide strategic guidance for the research and development of new, lower carbon cementitious materials that is instrumental to reaching our carbon neutrality goals," says Senior Vice President, Cement Operations Steve Regis. "By using real, scientific methodologies, CalPortland will continue to find innovative and meaningful solutions to current climate challenges."

Maraghechi has extensive research experience with cementitious and concrete materials. He holds a PhD in Civil and Environmental Engineering with a Materials focus from Pennsylvania State University; Master of Science in Civil and Environmental Engineering from the University of Hawaii at Mānoa; and, Master of Science in Polymer Engineering from the University of Tehran. He was most recently a senior scientist at California-based **Fortera**, working on design and development of low CO₂ cement and concrete formulations, and previously served as a scientist at Boral IP Holdings and the Ecole Polytechnique Federale de Lausanne in Switzerland.



Greg Holmes

Minnesota-based **Wells**, a top player in precast, prestressed building solutions from Great Lakes to the Rocky Mountains markets, has named Greg Holmes as operations manager of its new Brighton, Colo. plant. He is charged with supporting production goals and greater business objectives;

planning, scheduling and directing ongoing production work; establishing plant performance standards; analyzing workflows; and, troubleshooting problems to continually optimize internal processes and output.

"Greg comes with a strong background in precast production and operations," says Wells Mountain States CEO Mike Hemberger. "With more than 15 years in this industry, he has hands-on experience in every stage of the process, from batching and quality control through management. We're confident in the expertise he'll bring to our plant, making Wells a safe place to work with an emphasis on the manufacturing employee experience."

Most recently a plant manager for **Metromont Corp.** in South Carolina, Holmes started his career working at the Wells' namesake Minnesota location during college, later spending more than six years with the company as a batch plant operator and quality control manager. Through his tenure at Wells and Metromont, he has attained Precast/Prestressed Concrete Institute Level III certification.

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Megan Kocchi

Separately, Wells has appointed Megan Kocchi as director of Marketing. She will work with Senior Vice President and Chief Strategy Officer Kimberly Wacker to advance product growth initiatives, create marketing programs, and craft external client communications. As the national marketing lead, she will support company-wide business objectives and customer retention efforts, align with sales and pre-

construction teams to best position Wells' building solutions in the market, and increase brand awareness among partners and clients.

"Communicating our position as leaders in our industry is an evolving challenge," says Wacker. "But we're excited to expand our team of inventive problem solvers. Megan brings years of experience, strategy and creativity to this role. As Wells continues to grow and expand our offerings, it's imperative we share the vision with our partners with clarity on how we can help them succeed."

As part of the Wells' team, Kocchi will develop marketing strategies for the Midwest, Mountain States and Great Lakes regions. She will also be responsible for evaluating the impact of Wells' marketing programs and initiatives, and managing research projects to support improved strategy and communications. Most recently a marketing leader and associate for Eppstein Uhen Architects, Kocchi brings more than 15 years of marketing team leadership, strategy and execution to her role at Wells.



Sustainability Month saw Cemex USA team members participate directly or indirectly in the planting of 6,000-plus trees.

Cemex USA, Houston, recently wrapped up its second annual Sustainability Month, celebrating a longstanding commitment to environmental matters and circular economy through activities designed to promote environmental awareness and encourage positive action for the planet. Events across the producer's concrete, aggregate and cement operations included educational seminars, tree plantings and distributions to encourage employees, customers and communities to contribute to a more sustainable future.

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Sustainability Month spawned activities under Solutions, Practices, Relationships and Future banners. "Sustainability is key to our business, and our commitment is deeply integrated in operations as we work to positively impact our world," says Cemex USA Senior Vice President of Sustainability, Communications & Public Affairs Jerae Carlson.

VOTORANTIM CIMENTOS NA JOINS INNOVATION NETWORK

The parent company of Prairie Material, Canada Building Materials and St. Marys Cement is partnering with the Plug and Play Sustainability Platform to tap technology incubating in Silicon Valley and around the world. Collaboration with Plug and Play in Sunnyvale, Calif. enables Toronto-based Votorantim Cimentos North America to identify startups driving developments in such areas as digitization; new materials and methods; plus, carbon reduction, capture, storage and utilization. Sustainability Platform participants span technologies representing most every function within the construction site.

"Plug and Play provides access to a unique ecosystem with global reach that we can leverage as another strategic tool to enhance our innovation and sustainability efforts," says VCNA CEO Filiberto Ruiz. "We anticipate their combination of speed and extensive portfolio of potential partners will help accelerate our processes to generate value to customers and technological improvements."

"[VCNA's] commitments to sustainability and the exploration of cutting-edge technologies sends a clear message that they are ready to collaborate with startups and industry leaders to advance innovation in their offerings," adds Plug and Play Founder and CEO Saeed Amidi.

ORGANIZATIONS

Pacific Structures, a business of San Francisco-based **Build Group** with subcontracting entities across the West Coast, has named Brandon Tirri as chief executive officer. He will direct and oversee the namesake subsidiary, a structural concrete specialist, along with sister drywall, plaster and insulation, flooring and carpentry, plus exterior building envelope contracting operations. Combined, these entities generate over \$400 million in revenue on an annual basis as subcontractors for outside clients and Build Group projects.

CarbonCure Technologies, Halifax, N.S. developer of carbon dioxide sequestration methods in concrete production, has been named to the 2022 CNBC Disruptor 50 List. The compilation recognizes fast-growing and innovative private companies—spanning many industry verticals—whose breakthroughs are changing business-as-usual and moving markets at an accelerated pace. CarbonCure's systems inject and permanently mineralize carbon dioxide within concrete, producing the same high-quality matrix with a lower carbon footprint, greater material efficiency and less waste.

"In collaboration with our innovative concrete producer partners around the

world, by installing our turnkey solutions at existing plants, we're fulfilling demand for sustainable and circular concrete products," says CarbonCure Chairman Robert Niven. The inaugural CNBC Disruptor 50 list in 2013 recognized sector-defining companies such as Airbnb, Pinterest, Spotify, Twitter and Uber, he adds, noting "The fact that CarbonCure is named alongside these category-creating organizations—many of which have already achieved unicorn status in their respective industries—is great recognition of the hard work and innovation of our team and the immense progress we've made developing and deploying carbon removal technologies."

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The **Federacion Interamericana Del Cemento**, Bogotá, and **American Concrete Institute** have extended an International Partner Agreement underlying a joint target of achieving carbon neutrality in the cement and concrete sector. Their efforts will be propelled through the recently chartered NEU: An ACI Center of Excellence for Carbon Neutral Concrete, whose mission is to provide access to technologies and the knowledge needed to produce and place low carbon concrete in the built environment. The expanded agreement will encourage cooperation in areas of joint events, industry partnerships, research, technology acceleration, technical committees, and other related activities.

"This agreement reaffirms our role in promoting the sustainable development of cement-based construction systems and highlights both organizations' commitment to achieving a carbon neutral industry," says FICEM Executive Director Maria Jose Garcia.

In 2019, FICEM and ACI completed an International Partner Agreement to exchange the technical expertise of each organization through publications, meetings, conferences, internet links, committee membership, certification activities, and other activities. An international agreement between concrete-related organizations who are committed to cooperation, coordination, and collaboration is a critical step in the effort to develop a worldwide unified concrete community of equal partners, ACI officials affirm.

"The Institute is eager to expand this partnership with FICEM and looks forward to members of both organizations carrying on technical exchange and collaboration through committee activities and development of education products," adds President Charles Nmai (**Master Builders Solutions**). "This agreement aligns with ACI's strategic goal to provide resources for concrete professionals globally and to effectively meet the demands of a changing world."

Ohio-based **Lithko Contracting LLC**, a leading national concrete contractor, has appointed Brian Cullen as executive vice president. He arrives with 20-plus years' financial and strategic leadership experience in executive roles at Fortune 500 companies, including McDonald's Corp. and Procter & Gamble Co., and most recently served as chief financial officer for Verso, a leading paper and pulp producer.

His appointment times with ongoing expansion of Lithko Contracting, which has grown from two Ohio locations in 1994 to offices in over 20 regions servicing 35 states throughout the country. The organization has shown consistent financial growth to become the second largest concrete construction company in the U.S., with annual contract volume eclipsing \$1 billion. The executive vice president role has been created as Lithko continues to implement a strategic and organizational growth plan.

Denver-based residential and commercial flatwork business franchisor **Sam the Concrete Man** seeks to secure more than 30 franchise agreements during the second half of 2022, marking a second consecutive year of triple digit growth. The company equips franchisees to offer exterior and interior flatwork services, and provides technical and administrative support, including estimating programs.

"Sam the Concrete Man strives to create great experiences for customers and franchise owners, and the accelerated expansion we are experiencing serves as a testament to the positive impact of this collective focus," says Vice President of Franchise Development Ronnie Musick. The company has signed 36 agreements year to date, he adds, and is targeting franchisees in such key markets as Chicago, Detroit, Memphis, New Orleans, Oklahoma City, Philadelphia, Phoenix, Portland and Seattle.



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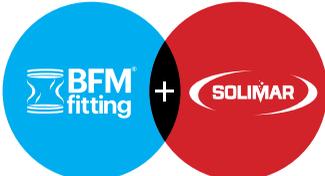
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UHPC PROJECTS LEAD RESEARCH COUNCIL'S GRANT ROSTER

Among 10 projects receiving 2022 ACI Foundation Concrete Research Council grants, two address ultra-high performance concrete: "Maximum Reinforcing Ratio for Reinforced UHPC Beams: Towards Slender Elements," under principal investigator Yi Shao, University of California, Berkeley; and, "Shear Behavior of UHPC Considering Axial Load Effects," under Dimitrios Kalliontzis, University of Houston. Joining them on this year's roster are these projects and investigators:

- "Alternative Supplementary Cementitious Materials from Local Agricultural Products," Ohio State University's Lisa Burris;
- "Damage Classification of Reinforced Concrete Structures for Fire: Rebar Temperature," University of Buffalo's Negar Elhami-Khorasani;
- "Development of a Phase Change Material-Based Heat-Absorbing Surface Covering for Concrete Pavements/Bridge Decks," Texas State University's Jung Heum Yeon;
- "Evaluation of Early-Strength Development in Tension-Driven High Strength Concrete Formulations," Illinois Institute of Technology's Matthew Gombada;
- "Fatigue Behavior of FRP Bars Embedded in Concrete," Case Western Reserve University's Christian Carloni;
- "How Much Consolidation Energy is Really Required to Create Concrete Specimens?" Missouri University of Science and Technology's Dimitri Feys;
- "Multiscale Reinforcement of Hybrid Steel Fiber Reinforced Concrete," Texas State University's Xijun Shi; and,
- "Reliable Measurement and Speciation of Sulfur in Concrete Aggregates," RJ Lee Group's April Synder.

Additional information about each of this year's awarded projects, including funding partners, research team and ACI Committee involvement is available at www.ACIFoundation.org/research.



University of Houston "Shear" team.

The **Charles Pankow Foundation's** latest research grant supports development of design criteria for mechanical reinforcing steel splices in hinge regions that would result in adequate performance for Gr80 and 100 bars, and performance criteria for mechanical splices to allow their use in hinge regions. Work will be performed in University of Texas at San Antonio labs under Principal Investigator Wassim Ghanoum, Ph.D., P.E.

Co-funding the investigation are CPF partners American Concrete Institute

Foundation and Concrete Reinforcing Steel Institute Foundation, BarSplice, Cascade Steel, CMC Metals, Dayton Superior, HRC, Nucor, nVent and Splice Sleeve. Members of an Industry Advisory Panel assisting in the investigation include Barsplice's Tim Cartwright; Cascade Steel's Jeff Kramer; CKC Structural Engineers' Joe Ferzli; CMC's Jacob Selzer; CRSI's David Fanella and Amy Trygestad; Dayton Superior's Jon Hankenhof; Magnusson Klemencic's David Fields; nVent's Manuel Conde; Nucor's Eric Nissen; and, Simpson Gumpertz & Heger's Dominic Kelly.

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MANUFACTURERS

Black Buffalo 3D Corp., New York-based provider of large-scale 3D printers for construction and member of HN Inc., has named Dr. Kunal Kupwade-Patil as chief technology officer. He arrives from 3D concrete printing technology developer **Icon** in Austin, Texas, and will head the development of sustainable and alternative cementitious materials, plus nano-engineered binding agents. In addition to his tenure as Icon head of Materials Science, Dr. Kupwade-Patil was a research scientist in the Massachusetts Institute of Technology Department of Civil and Environmental Engineering.

"Kunal was instrumental in building this industry, and he brings a level of expertise that will continue to keep Black Buffalo 3D at the forefront of new materials development and more sustainable building practices," says Black Buffalo CEO Michael Woods.

White Cap Supply Holdings LLC, Atlanta, has closed on Michigan's **CSI Geoturf**, a wholesale distributor of civil site construction geosynthetic and landscape supplies. CSI Geoturf has locations in metro Detroit, Grand Rapids and Traverse City, and will join the White Cap North Central Region.

"With their specialized expertise in geosynthetics and a strong branch footprint in Michigan, we look forward to offering stronger service capabilities, extended breadth and depth of products, and additional locations for local customers, alongside the talented team at CSI Geoturf," says White Cap CEO John Stegeman.

Trail King Industries, Mitchell, S.D. manufacturer of open deck and materials hauling trailers for a wide variety of markets, has named Eric Thomas as director of Sales, responsible for leading district sales and product support managers. He arrives with 30-plus years' sales experience, concentrated in machinery. He most recently served as Kohler Co. regional sales manager.

'HANDS ON' LEARNING AT IVY LEAGUE

A new Toyota Material Handling and Cornell University College of Engineering partnership is dedicated to developing a knowledge center that incorporates the manufacturer's equipment to elevate immersive engineering education to an entirely new level. The Forklift Learning Studio will be built this summer with a goal of officially launching this fall for engineering students at the Ithaca, N.Y. campus. Toyota representatives and Cornell Sibley School of Mechanical and Aerospace Engineering (MAE) faculty began discussing a partnership late last year as a way to revolutionize the way students learn by finding a more optimal balance between lecture and lab sessions.

Toyota proposed that forklifts would be a perfect fit for such a learning studio and offered to donate the equipment and branding work necessary to bring the idea to life. Forklifts encompass all aspects of a mechanical engineering curriculum, as they a) use internal combustion engines (thermofluids); b) bear weight (structural mechanics); and, c) function contingent on dynamic stability (dynamics and controls).



Toyota Material Handling chief Brian Kirby (left) guides colleagues and Cornell Sibley School of Mechanical and Aerospace Engineering staff for the partnership launch.



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Pozzolan Proliferation

As brand recognition climbs from an early-2022 chartering as Boral Resources and Green Cement Inc. successor, Utah-based Eco Material Technologies remains in a league of its own: Few, if any, cement, supplementary cementitious material (SCM), aggregate or admixture producers match the company in total number of North American ready mixed and manufactured-concrete or heavy/civil contractor accounts, or overall market footprint.

“Eco Material is the best of both worlds as Boral Resources and Green Cement combine the largest distribution network of portland cement alternatives in the U.S. with an innovative, proven technology that increases their environmental and economic value,” says CEO Grant Quasha, who maintains a title he held upon July 2021 arrival at Texas-based Green Cement. “The Company is excited to partner with its investors and 1,200 team members on a journey towards decarbonizing the materials industry.”

Concrete and cement customers, state or federal environmental regulators, plus electric utilities will see more binder and raw feed development as Eco Material approaches 10 million tons in annual deliveries, up from an average of 7.5 million tons in recent years. To reach that threshold, the company is sourcing—and beneficiating as needed—previously overlooked or rejected coal ash from new or current power plant partner properties; increasing high value SCM production; and, most recently, mining and processing natural pozzolan. Its universe will continue to revolve around material meeting the requirements of ASTM C618, Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.

Through the first half of the year, Eco Material has pursued bigger objectives than a seamless ownership transition, from Australia’s Boral Ltd. to a private investor group with bullish Wall Street backing. A mining industry and investment banking veteran, Quasha tasked his 10-member Boral Resources and Green Cement executive team to secure the core C618 Class F ash marketing and distribution business, then address or seize new opportunities on two fronts: Regulations mandating removal of coal combustion products from legacy impoundments or landfills, especially on sites of elevated groundwater contamination risk; and, the architectural/engineering/construction (A/E/C) community’s increasing scrutiny on portland cement and other materials driving projects’ levels of embodied carbon.

MAKING THE GRADE

Though technically not new, coal ash harvesting remains the next frontier for Eco Material and peer operators serving concrete and cement producers. It entails extraction of impounded fly ash or bottom ash from generating station or other power utility sites, followed by various treatment, grinding and classifying processes to bring the material to a) ASTM C618-level or higher performance in concrete; or, b) chemical composition befitting cement kiln.

“We have two major ash harvesting projects to announce later this year,” says Eco Material President Keith Depew, one of eight Boral Resources executives who migrated with the Green Cement merger and ownership change. “Both are significant capital outlays that will help us meet Class F material demand in key regions and demonstrate successful ash management for power plant partners subject to new disposal guidelines.” (note Record Harvest, opposite page.)

Harvested stock requiring beneficiating to attain C618 quality will position Eco Material to back up a diminishing supply of Class F ash from live coal-fired power plant feeds. Additional ash will be converted to a high performance SCM, as the company extends deployment of chemical treatment technology and processes yielding PozzoSlag and PozzoCem.



Eco Material Technologies CEO Grant Quasha (left) and President Keith Depew hosted the Kirkland Pozzolan Mine processing operation (below) dedication late last month.



Continued on page 52

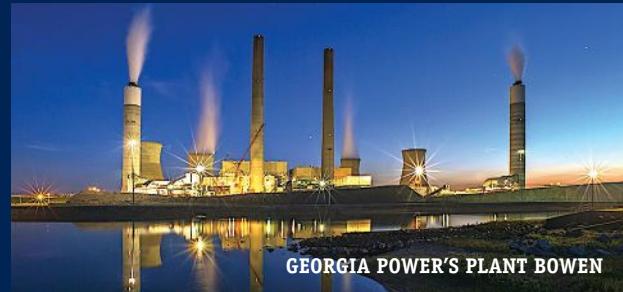
RECORD ASH HARVEST: 600,000 TONS/YEAR, 10 MILLION-TON HORIZON

As if the Kirkland Pozzolan Mine dedication weren't enough, Eco Material Technologies wrapped up Q2 2022 announcing an agreement with Georgia Power to harvest nearly 10 million tons of landfilled ash from Plant Bowen—one of the largest coal-fired power plants in North America. Eyeing annual volume upward of 600,000 tons, Eco Material will build a facility at the Cartersville, Ga. generating station to treat and process material meeting ASTM C618 characteristics. The agreement provides for the company to potentially add a second facility—driving annual production of concrete-grade material north of 1 million tons.

"As the largest partnership of its kind in the U.S., this project will not only use material from landfills and ash ponds, but also keep millions of tons of carbon dioxide from going into the atmosphere," says Eco Material CEO Grant Quasha. "The harvested material will be used in concrete to make stronger and longer lasting bridges and roads, and serve as a model for helping forward thinking utilities like Georgia Power and [parent] Southern Company close landfills and ash ponds, while building a greener and more sustainable planet."

"This project at Plant Bowen is historic for our company, and our entire industry, and we see the potential to expand beneficial use projects further in the future," adds Georgia Power Vice President of Environmental Affairs Aaron Mitchell. "Georgia Power is always researching and exploring new and innovative ways to reuse coal ash that are beneficial to our customers and communities. Finding and securing these opportunities will not only reduce and save space in landfills, but also serve as a financial tool to help offset the cost of ash pond closures for our customers."

"As concrete producers continue to work to achieve carbon neutrality, and power companies seek modern and innovative solutions for beneficial use of coal ash, this voluntary project in Georgia is a model for the industry, directly responding to both market and environmental needs," observes American Coal Ash Association Executive Director Tom Adams. "With the nationwide focus on improving American infrastructure including roads and bridges, demand for materials continues to outpace available supply, and collaborative projects such as this will be critical to bridging that gap in the future."



GEORGIA POWER'S PLANT BOWEN

KEYSTONE STATE MODEL

Experience at a 2 million-ton Talen Energy ash deposit and processing operation in Danville, Pa. will inform the Georgia Power Plant Bowen harvesting contract. Eco Material recently surpassed a 150,000-ton Class F ash processing and shipment threshold from a Talen landfill that was identified in 2016 as a good harvesting candidate for (Boral Resources-proved) classification and treatment methods.

To mark the recycling, processing and marketing success, Eco Material hosted a spring gathering at the Danville site, drawing U.S. Representative Dan Meuser (R-PA-9); staff from the offices of Senators Pat Toomey (R-PA) and Bob Casey (D-PA); plus, Pennsylvania Senator John Gordner and Representative Kurt Masser. "We are honored to welcome Congressman Meuser and other officials to celebrate this achievement for our company and the state of Pennsylvania," said Eco Material CEO Grant Quasha. "Without their support and other state, federal and local officials, we would not be commemorating this milestone."

"My district is made up of many communities that benefit from the great work Eco Material is doing in Danville," added Representative Meuser. "Its innovative process of transforming the waste material, called 'fly ash,' from coal-fired power plants into a near-zero carbon cement product is a smart and environmentally friendly way to build America's infrastructure. Eco Material provides a free-market alternative to other products that have been used to repave roads throughout the Commonwealth."



PHOTO: Electric Power Research Institute

Eco Material's ash processing facility will follow closely on the heels of the Plant Bowen-based Ash Beneficiation Use Center, opened in 2021 as a joint effort of Georgia Power parent Southern Co., Atlanta, and the Electric Power Research Institute, Palo Alto, Calif.



PHOTOS: Concrete Products

(right) Eco Material CEO Grant Quasha and Kirkland Mining President Areta Zouvas mark the June 2022 milestone in their companies' partnership, underpinned by a rich Arizona deposit of natural pozzolan (above) suiting concrete practice across the Southwest.

Green Cement began commercial PozzoSlag production at a modestly scaled Jewett, Texas facility nearly a decade ago. The material was promoted for high reactivity characteristics, initially enabling up to 60 percent replacement of portland cement in certain mix designs. When measured at varying dosage rates in concrete specimens, PozzoSlag paces portland cement controls' early strength development and surpasses their compressive strengths in 28-day cylinder breaks. Market uptake among concrete producers, boosted by state and local agency approvals, has propelled Jewett operation volume past 1 million tons to date. Most recently, the company has begun producing and selling PozzoCem, a 100 percent portland cement replacement product, in commercial quantities from the Jewett finishing line.

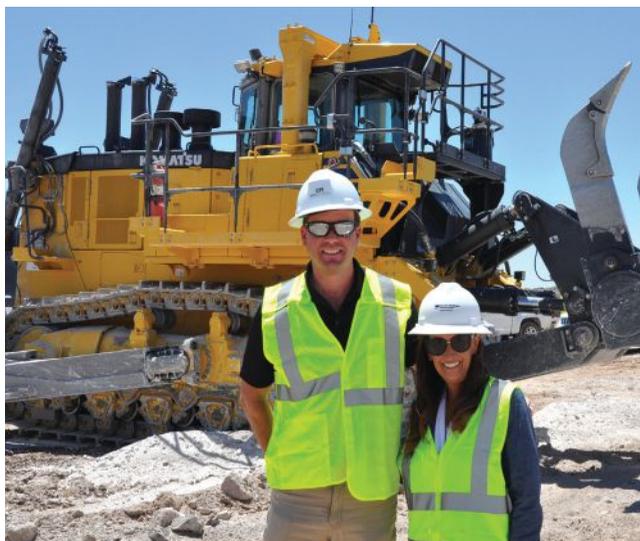
Management plans to scale up PozzoCem output in short order. PozzoSlag's underlying chemistry and process methods afford sourcing of average or sub-Class F or C ash from a broad sampling of coal-fired generating stations. Under the Eco Material umbrella—51 ash marketing/processing contract sites and 39 terminals with a combined footprint across 45 states, plus 2,800 rail cars and 160 bulk tankers—the PozzoSlag and PozzoCem technologies become candidates for production coast to coast.

NATURAL POZZOLAN

Between live power generating station and impoundment-harvested ash feeds, Eco Material brings construction stakeholders a two-tier value proposition: A low-carbon portland cement substitute whose recycled material content hovers near 100 percent. The latter quality is certain to gain favor as A/E/C teams and their clients embrace and exercise "circular economy" principles that minimize waste.

Eco Material's newest product offering departs from the recycling loop but stands to contribute to fly ash beneficiation and deepen the supply of portland cement alternatives for quality concrete. Arizona customers and public officials joined the company late last month for a ribbon cutting at the Kirkland Pozzolan Mine, located in hilly, desert terrain 75 miles northwest of Phoenix. Grant Quasha credited internal construction and mining teams, as well as plant equipment suppliers, with creating a world class facility—potentially the largest of its kind in the nation.

Boral Resources and Scottsdale, Ariz.-based Kirkland Mining Co. entered a partnership in December 2019 to develop the 88-acre site, which holds 20 million-plus tons of high quality pumiceous tuff. The venture timed with diminishing Class F fly ash supplies in certain West Coast markets and greater acceptance of natural pozzolans as a premium SCM. Finished Kirkland Natural Pozzolan can be used in concrete mix designs to augment or replace fly ash, slag cement and portland cement, and counter alkali silica reactivity. It averages 11-micron diameter particles; exhibits 88-90 percent silicon, aluminum and iron oxides content; and bears ASTM C618 Class N designation.



GREEN BACKERS

Eco Material has scaled Kirkland Mine crushing and classifying equipment, plus material handling and storage, for up to 500,000 tons' annual throughput. The facility is delivering Kirkland NP samples to customers and prospects who can observe the material's binding characteristics and potential to afford concrete practitioners a broader choice of aggregates due to ASR resistance. Initial Kirkland NP market development will be concentrated in Arizona and Nevada, although a rail loadout facility two miles from the mine will shoulder efficient material deliveries throughout the Southwest, especially in five bordering states—home to six Eco Material sites. Kirkland Plant Manager Michael Beirne, a Holcim US (Holly Hill, S.C.) veteran who arrived at Eco Material in early 2021, is overseeing production ramp up with a 15-member mining and processing crew.

Eco Material's emergence capped the Boral Ltd. North American market participation sunset. A first-of-its-kind financing mechanism, a Green-rated bond for a leveraged buyout, positioned Green Cement principals and new majority partners to close a \$775 million transaction.

Lead Eco Material investors are New York middle market operator One Equity Partners (OEP), Wall Street's Warburg Pincus LLC, and subscribers to a \$525 million Green Bond. The latter enthusiastically supported a newly-formed entity, presented as one "dedicated to decarbonizing the materials industry through scalable and proven technological solutions" and "equipped to transform industrial waste into environmentally-friendly substitutes for everyday products."

"Fly ash represents one of the largest streams of industrial waste in the country, creating the unique opportunity for Eco Material to simultaneously solve a serious environmental challenge for utilities while lowering the carbon footprint of high-emitting industries like cement," noted Warburg Pincus Managing Director Roy Ben-Dor.

"Bringing together Green Cement and Boral creates immediate synergies, positions the Company to take advantage of new growth opportunities, and will enable it to have an even greater positive environmental impact," added OEP Managing Director Matt Hughes.

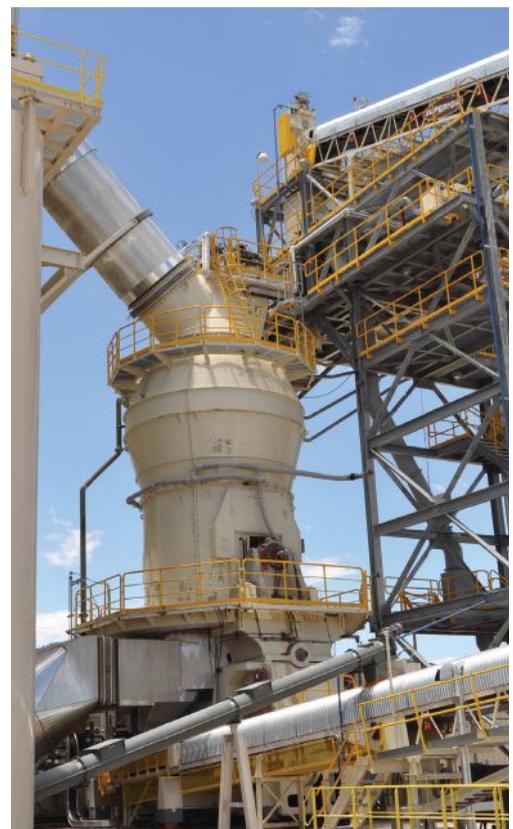
Six months on, Eco Material appears true to customer, investor and environmental stakeholder commitments—thanks to management continuity, coupled with timely investments supporting sub-C618 ash harvesting, scaling of PozzoSlag/PozzoCem production and distribution, and natural pozzolan production.

KIRKLAND NATURAL POZZOLAN: FINISHING FINESSE



The Kirkland Pozzolan Mine processing facility is equipped with a 48-in. primary crusher and a second crusher netting 3-in. minus grades. The latter are belted to the operation's workhorse, a vertical grinding mill (far right) whose 9-ft. diameter steel wheels reduce Kirkland Natural Pozzolan to particle sizes of 20 microns or less. A circulating hot air stream carries particles of target size range to precipitate on the filters of a large baghouse (top, center and right). The natural pozzolan is then dis-engaged in beds for transfer to the twin 5,000-ton silos.

Eco Material Technologies functioned as general contractor for the Kirkland processing operation and deployed its internal construction crew to assist principal suppliers Raw Resources Group, conveyors and mezzanine; CST Industries Inc., bolted steel silos; and, Loesche GmbH, grinding mill.



Breakthrough Binder

Investors targeting reduction of the carbon dioxide emissions factor in portland cement and concrete have focused on methods capturing, using or storing the greenhouse gas, plus new means of generating the high temperatures fossil fuel-fired cement kilns need to convert limestone and other raw feeds to clinker.

A Longmont, Colo. startup has garnered backing for technology paving a different path to a universal load-bearing material produced with a CO₂ factor about one-tenth that of conventional concrete binder. On the heels of a well subscribed, initial venture capital funding round announced last month, Prometheus Materials is commercializing a process where complex compounds of carbon, hydrogen and oxygen reconstitute as an alternative to the calcium-silicate-hydrate with which portland cement locks sand, gravel and rock.

The company dubs its product a bio-concrete and credits the binding mechanism to bio-mineralization. The latter exploits the capacity of a single cell microorganism, or microalgae, to precipitate calcium, carbon, hydrogen and oxygen atoms, and promote development of calcite, a common form of calcium carbonate. Coupled with carbon-, oxygen- and hydrogen-rich natural polymers, the calcite secures fine and coarse aggregate in a matrix—emulating calcium-silicate-hydrate in fresh and hardened concrete.

“By using biological rather than chemical means to create a strong, durable binding agent for aggregate, we can now offer an alternative to carbon-intensive portland cement,” says Prometheus Materials Co-Founder and CEO Loren Burnett.

“Coral reefs, shells, and even the limestone we use to produce cement today show us that nature has already figured out how to bind materials together in a strong, clever, and efficient way,” adds Co-Founder and Chief Technology Advisor Dr. Wil Srubar III. “By working with nature to use existing microalgae to bind materials together to create new types of sustainable products, we can eliminate most, if not all, of the carbon emissions associated with traditional concrete-based building.” CO₂ sequestration during production of the company’s bio-cement, he notes, results in an embodied carbon reduction upwards of 90 percent in finished products or structures when measured against concrete alternatives.

MIX DESIGNS, MOLDED UNITS

The binder at the heart of the Prometheus Materials process is comprised of bio-mineralizing algae and a hydrogel formulated from natural polymers, production capacity for which ensures reliable sourcing coast to coast. The microalgae is cultured from one of a handful of common bacteria strains used in consumer and industrial products.

Bio-concrete production is conducive to a typical plant environment. The biomineralization is driven by photosynthesis, which in turn facilitates calcite formation and aggregate binding. At the casting stage, a mixture of the biomineralizing algae and hydrogel is combined with aggregate and placed in a mold or form. Early testing has seen relatively dry mixes dehydrate and harden at rates equating to one-day demolding or form-stripping schedules, followed by five- to six-day strength development cycles.

“We have worked mainly with near-zero slump mixes,” says Dr. Srubar III. “When compared to a concrete mix, the bio-cement process allows higher aggregate contents and generates strong interactions and bonds between the fine and coarse materials. The result is a stiff matrix.”



Loren Burnett



Wil Srubar III

The Prometheus Materials bio-mineralization process is rooted in a 2016-2020 University of Colorado Boulder investigation. It commenced under a \$2 million grant from the Department of Defense (DOD), which eyed hybrid living materials with biological and structural function. Methods scalable in the field could position DOD to grow load-bearing materials in resource-limited environments.

As lead investigator, Associate Professor Dr. Srubar III was joined by University of Colorado Boulder colleagues: Assistant Professors Mija Hubler, PhD, Jeffrey Cameron and Sherri Cook. Midway through work with microalgae and natural polymers, they achieved a fine aggregate bio-concrete proof of concept. Preliminary R&D entailed more microscopy and petrographic analysis—typical of cement or concrete labs evaluating hardened material quality—than compressive strength testing.

Under DOD grant terms, technology with commercial prospects emanating from the investigation would become the University’s intellectual property. Lab observations and the ready availability of materials suggested the bio-concrete’s potential for broad construction use. Investigators elected to pursue commercialization by concentrating their material and process on a load-bearing staple: the 8- x 16-in. concrete masonry unit. Successful molding of 8- x 16-in. blocks—their mortar-like bio-cement mixes developing up to 2,000 psi compressive strength—compelled the professors to secure an exclusive license to the technology, spawning Prometheus Materials’ 2021 launch.

TRANSITION

Dr. Srubar III and his team handed business and administrative duties to Loren Burnett, a serial entrepreneur seasoned in technology transfer and licensing from public entities. He has overseen a transition of R&D from the Boulder lab to a Longmont, Colo. headquarters, and assembled a charter staff to advance 8- x 16-in. bio-concrete masonry units toward ASTM test performance and related validation measures, while tailoring mix designs for higher slump precast and cast-in-place elements.

The company’s \$8 million Series A funding round, closed in March 2022, greatly augments Longmont facility build out and pursuit of bio-concrete casting at market level. The biggest ticket item on order is a concrete block machine, commissioning of which will command staff energy in the second half of 2022. After the machine is up and running, the Prometheus Materials team will evaluate formwork and processes for architectural or sound wall panels, plus other precast

products. From one prospective application to the next, it will aim to demonstrate bio-concrete material performance in line with engineering properties essential to residential or commercial building code compliance.

Block and precast elements will be marketed to architects, engineers, property and facility developers, and other construction prospects as a strong, durable, zero-carbon alternative to conventional concrete. Prometheus Materials' staff will likewise measure the potential their process holds for use in ready mixed form. As the technology proves in low- to high-slump casting conditions, the company will weigh licensing options for incumbent concrete producers or new operators capable of batching, placing and curing bio-concretes.

INVESTOR ACUMEN

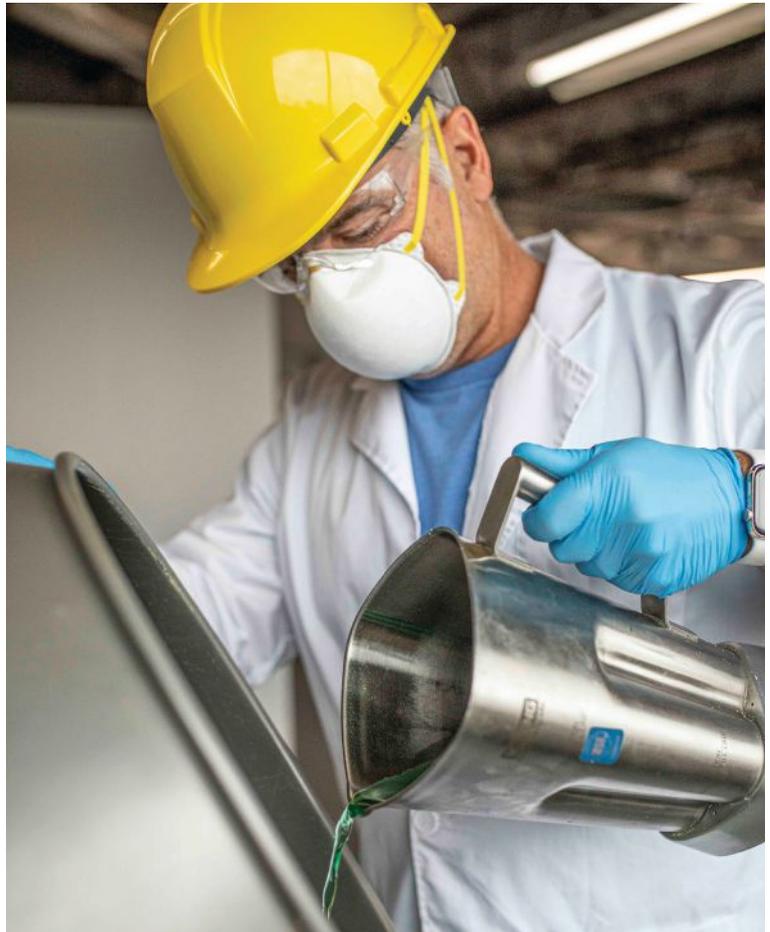
Prometheus Materials' potential to commercialize a low-carbon technology applicable to an industry on the order of construction drew a diverse group of investors, led by Sofinnova Partners, a life sciences venture capital firm in Paris.

"We've been impressed by the team's ability to deliver a long-sought, sustainable, and highly effective replacement for traditional portland cement, minus the carbon emissions," affirms Sofinnova Partner Joško Bobanović, a member of the investor's Industrial Bio-tech team. "This solution demonstrates the power of biology to replace existing industrial processes with climate-friendly alternatives."

Other funding round participants are uniquely positioned along the construction value chain: the Microsoft Climate Innovation Fund, Chicago-based architectural/engineering giant Skidmore, Owings & Merrill (SOM), GAF, and The Autodesk Foundation. None are strangers to cement-based products and concrete practice. Beyond its core residential and commercial roofing lines, for example, GAF produces Weatherside fiber-cement siding series. SOM, on the other hand, has an unrivaled track record in reinforced concrete engineering, demonstrated most convincingly in Dubai's 2,700-ft. Burj Khalifa tower.

With a host of data center and corporate campus developments in the works, Microsoft brings the investor group a perspective few project owners can match. "Sustainable building materials, like the carbon negative solution from Prometheus Materials, will enable our data centers to actually sequester carbon," observes Microsoft Sustainability Solutions General Manager Mark Kroese. "We are proud to be working on this pilot program, and investing in companies that accelerate building decarbonization through our Climate Innovation Fund."

"Our investors see how we can impact an industry calling for low-carbon solutions to traditional applications, and also apply its technology to new uses," concludes Prometheus Materials President and CEO Loren Burnett. "We have a novel material absolutely different from portland cement concrete. Our bio-cement will transform architecture as we know it by providing the construction industry with a new decarbonized building material that has environmental and mechanical properties that mirror or exceed the capabilities of concrete, wood, steel, and glass."



After proving the bio-mineralization concept with hydrogel, microalgae and fine ASTM C33 aggregate, Prometheus Materials applied the technology to bio-concrete masonry units with test molds. One of its first capital equipment outlays is a conventional block machine to anchor commercialization of load-bearing, code-ready units.



PHOTOS: Prometheus Materials



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Cobod.....	(see Companies listing)
Icon.....	(see Companies listing)
MudBots.....	(800) 733-2302

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DRY, WET CAST PRODUCTS

ACM Chemistries.....	(770) 417-3490
Master Builders.....	(216) 839-7500
Chryso.....	(972) 772-6010
Euclid Chemical.....	(216) 692-8353
Fritz-Pak.....	(214) 221-9494
GCP.....	(617) 876-1400
Krete.....	(800) 777-9562
Mapei/GRT.....	(954) 246-8888
Sika.....	(800) 933-7452

ADMIXTURES—MINERAL

CALCIUM CARBONATE

Carmeuse Lime.....	(412) 777-0747
Huber Carbonates.....	(678) 247-7437
Lhoist NA.....	(972) 827-9720
Omya NA.....	(513) 387-4600

CALCINED CLAYS

See Natural Pozzolans

SILICA FUME

Elkem.....	(412) 299-7200
Norchem.....	(631) 724-8639

ADMIXTURES—SCC

RM, VM AGENTS; POLYCARBOXYLATES

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Master Builders.....	(216) 839-7500
Chryso.....	(972) 772-6010
Euclid.....	(216) 692-8353
Fritz-Pak.....	(214) 221-9494
GCP.....	(617) 876-1400
Krete.....	(800) 777-9562
Mapei/GRT.....	(954) 246-8888
Sika.....	(800) 933-7452

ADMIXTURES—SPECIALTY

CARBON NANOTUBE

EdenCrete.....	(303) 468-1705
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GRFC

Trinic.....	(800) 475-1975
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PERVIOUS PAVEMENT

Procure/ACT.....	(863) 937-1914
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RCC MIXES

Solomon Colors.....	(217) 522-3112
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Premier CPG.....	(302) 218-4987
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WATERPROOFING

Cortec.....	(651) 429-1100
Hycrete.....	(866) 492-7383
Kryton.....	(604) 324-8280
Penetron.....	(631) 941-9700
Xypex.....	(604) 273-5265

AGGREGATES

ARCHITECTURAL

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New Riverside.....	(800) 248-0176

LIGHTWEIGHT—MINERAL, SYNTHETIC

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Blue Planet.....	(408) 458-3900
Buildex.....	(785) 242-2177
Carolina Stalite.....	(800) 898-3772
CRDC.....	(see Companies listing)
DiGeronimo.....	(888) 593-0395
Hess Pumice.....	(208) 766-4777
Hydraulic Press.....	(317) 290-1140
Imerys.....	(770) 645-3473
Norlite.....	(800) 322-2446
Strategic Materials.....	(281) 647-2700
Utelite.....	(801) 467-2800

RECYCLED

Urban Mining.....	(914) 633-3393
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Helser.....	(503) 692-6909
Spec Formliners.....	(888) 429-9550
Spillman.....	(800) 443-6767

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Blue Level.....	(888) 615-3835
Olii Vibrator.....	(770) 622-1494
Solimar.....	(763) 574-1820

AGGREGATE COOLING

Airgas.....	(610) 397-2829
NITROcrete.....	(970) 587-7863

AGGREGATE DRYING, HEATING SYSTEMS

Aggregate Drying.....	(888) 374-4495
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Besser.....	(989) 354-1000
Clayton Ind.....	(800) 423-4585
Infern-O-Therm.....	(717) 667-6000

McCoy Equipment.....	(905) 985-0989
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Pathfinder.....	(616) 395-8447
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Sioux.....	(605) 763-3333
Steam Eng.....	(647) 749-4064

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Venture.....	(864) 699-5279

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Treyco.....	(717) 273-6504
Vince Hagan.....	(214) 330-4601

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Egan Co.....	(763) 544-4131
Erie Strayer.....	(814) 456-7001
GivenHansco.....	(614) 310-0060
Jonel.....	(800) 432-4567
Libra.....	(205) 879-3282
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MPAQ Automation.....	(905) 542-9411
Marcotte Systems.....	(855) 652-6520
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Sydney Technologies.....	(203) 327-3649
WEM Automation.....	(262) 782-2340

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GCP.....	(617) 876-1400

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W. Ludwig.....	(see Companies listing)

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Nederman.....	(800) 533-5286
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SILOS

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Imperial.....	(715) 359-0200
McCoy Equipment.....	(905) 985-0989
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Standley Batch.....	(573) 334-2831
Treyco Mfg.....	(717) 273-6504
Vince Hagan Co.....	(214) 330-4601

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Sioux.....	(605) 763-3333
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Texaloy Foundry.....	(800) 367-6518
Vince Hagan.....	(214) 330-4601

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Mixer Systems.....	(800) 756-4937
Standley Batch.....	(573) 334-2831
Teoweigh.....	(651) 777-4780
Vince Hagan.....	(214) 330-4601
Voeller Mixers.....	(262) 284-3114

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BMH Systems.....	(888) 793-9340
Besser.....	(989) 354-1000
Cleco.....	(603) 886-5472
Elematic.....	(262) 798-9777
Erie Strayer.....	(814) 456-7001
Imer.....	(301) 336-3700
JEL Mfg.....	(262) 223-3205
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Liddell Ind.....	(324) 646-7581
McCoy Equipment.....	(905) 985-0989
MCT Group.....	(727) 560-5414
Merts/Pathfinder.....	(229) 435-3315
Skako Inc.....	(858) 271-1630
Standley Batch.....	(573) 334-2831
Voeller Mixers.....	(262) 284-3114
W.P. Hills.....	(540) 989-1281

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Imer.....	(301) 336-3700
McCoy Equipment.....	(905) 985-0989
Mixer Systems.....	(800) 756-4937
Siocoma NA.....	(727) 575-7999
Skako Inc.....	(858) 271-1630
Standley Batch.....	(573) 334-2831
Teka NA.....	(757) 558-8846
Voeller.....	(262) 284-3114

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Vince Hagan.....	(214) 330-4601

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Masa USA.....	(920) 497-0390
Skako Inc.....	(858) 271-1630

TWIN SHAFT

ACT.....	(603) 431-5661
BHS-Sonthofen.....	(704) 814-7671
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Simem America.....	(800) 729-0906
Skako.....	(858) 271-1630
Teka NA.....	(757) 558-8846

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CMQ Engineering.....	(605) 252-4855
Con-E-Co.....	(402) 426-4181
Erie Strayer.....	(814) 456-7001
Liddell Ind.....	(324) 646-7581
Liebherr USA.....	(757) 928-2487
McCoy Equipment.....	(905) 985-0989
Merts/Pathfinder.....	(229) 435-3315
Rexcon.....	(262) 539-4473
Simem America.....	(800) 729-0906
Standley Batch.....	(573) 334-2831
Stephens Mfg.....	(270) 487-6774
Treyco.....	(717) 273-6504
Vince Hagan.....	(214) 330-4601

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RCC-GRADE MIXERS

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Liebherr USA.....	(757) 928-2487
Rapid.....	(303) 853-0068
Stephens.....	(270) 487-6774

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Liebherr USA.....	(757) 928-2487
McCoy Equipment.....	(905) 985-0989
Stephens Mfg.....	(270) 487-6774
Vince Hagan Co.....	(214) 330-4601

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Columbia.....	(360) 694-1501
Masa USA.....	(920) 497-0390
Muller.....	(800) 628-6787
Pathfinder.....	(616) 395-8447

CURING SYSTEMS

Besser.....	(989) 354-1000
CDS Inc.....	(973) 641-6857
Clayton Ind.....	(800) 423-4585
Fir Industries.....	(920) 921-6842
Jaybird Mfg.....	(814) 364-1800
Johnson Gas.....	(800) 553-5422
Kraft Curing.....	(215) 300-2130
McCoy Equipment.....	(905) 985-0989
Pathfinder.....	(616) 395-8447
Sioux.....	(605) 763-3333
Steam Eng.....	(647) 749-4064
Universal Door.....	(317) 241-3447

MOLDS

Armcon Molds.....	(800) 699-2799
Bergen Ind.....	(800) 722-0920
Besser.....	(989) 354-1000
Columbia.....	(360) 694-1501
GMS Molds.....	(310) 684-1168
Kobra Molds.....	(715) 381-8322
McCoy Equipment.....	(905) 985-0989
Pathfinder.....	(616) 395-8447
Rampf Molds.....	(301) 791-6880
Swift River.....	(603) 623-2454
Topwerk.....	(905) 575-4440

PALLETS, RACKS

Alabama Pallets.....	(888) 530-7337
Besser.....	(989) 354-1000
Columbia.....	(360) 694-1501
Masa USA.....	(920) 497-0390
McCoy.....	(905) 985-0989
Pathfinder.....	(616) 395-8447
Peri Pave.....	(410) 712-7225
Samjung Industries.....	(847) 495-0699

PRODUCT HANDLING

Besser Co.....	(989) 354-1000
Columbia.....	(360) 694-1501
Masa USA.....	(920) 497-0390
McCoy.....	(905) 985-0989
Pathfinder.....	(616) 395-8447
Slab Innovations.....	(450) 656-4666
Topwerk.....	(905) 575-4440

QUALITY CONTROL

Masa USA.....	(920) 497-0390
Neoculus Tech.....	(418) 694-9385
SoundQA.....	(604) 317-2702

ROBOTICS

Columbia.....	(360) 694-1501
Const. Robotics.....	(585) 742-2004
Pathfinder.....	(616) 395-8447
Slab Innovation.....	(450) 656-4666

SUPPLIES, TOOLS

Glow Path.....	(833) 456-7284
Increte.....	(813) 886-8811
Kaufman.....	(410) 354-8600
Techniseal.....	(800) 465-7325

SURFACE TREATMENT

Besser.....	(989) 354-1000
Columbia.....	(360) 694-1501
Masa USA.....	(920) 497-0390
Topwerk.....	(905) 575-4440

TRUCK CARGO SECUREMENT

Unique Sideboards.....	(941) 358-5410
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BLOCK, PAVER, STONE VENEER, TILE— MACHINES

DRY CAST

Besser Co.....	(989) 354-1000
Columbia.....	(360) 694-1501
KVM Intl.....	(920) 217-8453
Masa USA.....	(920) 497-0390
Pathfinder Systems.....	(616) 395-8447
Quadra USA.....	(602) 373-2951
Rekers NA.....	(914) 847-7446
Topwerk America.....	(905) 575-4440

WET CAST

Automacad.....	(450) 632-6323
Besser.....	(989) 354-1000
CAM Equipment.....	(800) 338-0715
McCoy.....	(905) 985-0989
Quadra USA.....	(602) 373-2951
Slab Innovation.....	(450) 656-4666

CARBON MANAGEMENT

CO₂ CURING, INJECTION

CarbiCrete.....	(514) 210-5078
Carboclave.....	(514) 570-8634
CarbonBuilt.....	(310) 206-3084
CarbonCure.....	(902) 442-4020
Fortera Inc.....	(see Companies listing)
Praxair.....	(716) 849-2619
Solidia Tech.....	(908) 315-5901

CEMENT TRANSFER

GATES, PNEUMATICS, VALVES

C&W DustTech.....	(800) 880-3878
Cyclonaire.....	(402) 362-2000
HammerTek.....	(717) 898-7665
Transflo.....	(574) 472-1095
Tuthill Systems.....	(800) 825-6937

RAIL CAR UNLOADERS

Cyclonaire.....	(402) 362-2000
Martin Eng.....	(800) 544-2947

SCREW CONVEYORS

Besser Co.....	(989) 354-1000
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Cyclonaire	(402) 362-2000
McCoy	(905) 985-0989
National Bulk	(616) 399-2220
Skako	(858) 271-1630
Standley Batch	(573) 334-2831
WAM USA	(770) 339-6767

STORAGE

See BATCH PLANTS—COMPONENTS/Silos

CEMENTS, SCM

FLY ASH—ASTM C 618

Eco Materials	(801) 984-9400
M2 Solutions Inc.	(786) 401-2226
National Minerals	(651) 686-1000
SEFA Group	(888) 339-7332
Specification Products	(888) 881-1726
Titan America/STI	(540) 966-6847

GGBF SLAG—ASTM C 989

Argos USA	(678) 368-4300
Cemex USA	(713) 650-6200
LafargeHolcim	(773) 372-1000
Ozinga	(888) 970-1317
Skyway Cement	(630) 505-7073
St Marys Cement	(416) 696-4411

PORTLAND, BLENDED ASTM C 150, C 1157

Alaska Basic	(907) 349-3333
American Cement	(352) 569-5397
Argos USA	(678) 368-4300
Armstrong	(724) 352-4471
Ash Grove	(913) 451-8900
Buzzi Unicem	(610) 882-5000
CalPortland	(626) 852-6200
Cemex USA	(713) 650-6200
Continental	(636) 532-7440
Eagle Materials	(214) 432-2000
GCC America	(303) 739-5900
Giant Cement	(843) 851-9898
Holcim (US)	(773) 372-1000
Illinois Cement	(815) 224-2112
Lafarge NA	(773) 372-1000
Lehigh Cement	(800) 527-2362
Martin Marietta	(919) 781-4550
McInnis	(438) 382-3331
Monarch	(620) 473-2222
Mountain	(307) 745-4879
Nevada Cement	(775) 575-2281
Roanoke	(800) 782-7622
Salt River Materials	(480) 850-5757
St Marys Cement	(416) 696-4411
Suwannee	(866) 594-8488
Texas Lehigh	(512) 295-6111

RECYCLED GLASS

Urban Mining	(914) 633-3393
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WHITE

Lehigh White	(610) 366-4600
Royal White	(713) 676-0000

CHIPPING, CLEANING

FLEETS + PLANT

Blasters' Ready Jet	(813) 985-4500
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Coast 2 Coast	(713) 920-2165
DrumBlaster	(727) 331-3796
E. Coast Chippers	(561) 339-1086
Gasca Concrete Chipping Services	(346) 758-7260
General Chipping	(866) 342-8295
Shumaker Ind.	(800) 326-9349
Silo Pros	(561) 418-3710

COLORING AGENTS, IRON OXIDE PIGMENTS

DRY, WET CAST PRODUCTS

Butterfield Color	(630) 906-1980
Cathay	(855) 422-8429
Davis Colors	(844) 341-4780
Increte	(813) 886-8811
L.M. Scofield	(770) 920-6079
Lanvess	(412) 809-1546
New Riverside	(800) 248-0176
Prism	(651) 488-4250
Shepherd Color	(513) 874-0714
Solomon Colors	(217) 522-3112
Venator	(281) 465-6700
Yipin Pigments	(909) 243-7394

CONSTRUCTION TOOLS, EQUIPMENT, SUPPLIES

COATINGS

Euclid Chemical	(216) 692-8353
Kaufman	(410) 354-8600
Nox-Crete Products	(402) 341-2080
Solomon Colors	(217) 522-3112

HAND, POWER

Airmatic Inc.	(800) 838-4751
Brokk	(360) 794-1277
Max USA	(516) 741-3151
Spin Screenshot	(888) 329-6039

JOINTS, SEALANTS

Euclid Chemical	(216) 692-8353
Hamilton Kent	(416) 675-9873
Nox-Crete Products	(402) 341-2080
Oscoda Plastics	(800) 544-9538

VIBRATORS

See PRECAST

CONCRETE COOLING

Innovations Group	970-430-6572
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CRANES

GANTRY

Comblift	(336) 314-4262
Gantry Trading	(609) 263-6900
GH Cranes & Components	(972) 563-8333
MI-Jack Products	(708) 225-2312
Shuttlelift	(920) 743-8650

HOISTS, SLINGS

Caldwell Group	(815) 229-5667
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OVERHEAD

Ace World Cos	(817) 237-7700
Demag Cranes	(440) 248-2400
EMH Inc.	(330) 220-8600
GH Cranes & Components	(972) 563-8333

TRUCK-MOUNTED

Hiab Inc.	(800) 852-2331
Manitex Inc.	(877) 314-3390
PalFleet/Tiffin	(419) 448-8156
QMC	(775) 507-5356

DEALERS, DISTRIBUTORS

PLANT EQUIPMENT

ATS	(319) 277-5401
Barnes Industrial	(877) 870-5777
Capital Equip.	(816) 830-6421
CMW Group	(314) 993-1336
Concrete Plants	(410) 975-5848
ConRoc	(800) 292-5192
DHE	(800) 434-3462
iwi Group	(770) 840-7060

ENVIRONMENTAL EQUIPMENT

BLOCK FORMS

Betonblock	(843) 901-6505
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CRUSHING/RECYCLING

McLanahan	(814) 695-9807
Terex MP	(605) 987-2603
Trio	(626) 851-3966

DUST COLLECTORS

Albarrie	(866) 269-8275
BHA	(800) 821-2222
Besser	(989) 354-1000
C&W DustTech	(800) 880-3878
Coperion K-Tron	(785) 825-3830
Donaldson	(800) 374-1374
FilterSense	(978) 927-4304
Griffin Filters	(315) 451-5300
McCoy Equipment	(905) 985-0989
Standard Filter	(760) 929-8559
Vince Hagan	(214) 330-4601

FILTER PRESSES

Alar Engineering	(708) 479-6100
Bilfinger Water	(651) 636-3900
Enviro-Port	(800) 356-8106
Matec America	(270) 841-9180
McCoy Equipment	(905) 985-0989
MW Watermark	(616) 399-8850
Quamax	(503) 930-8875
Phoenix Process	(502) 499-6198
Pristine	(320) 224-7445
Water Treatment	(866) 758-1900

FLOCCULENTS

Cetco Energy	(573) 228-8057
GelMaxx USA	(855) 322-3335

RECLAIMERS

BFK Tech	(920) 894-1113
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Bibko NA	(855) 242-5687
Enviro-Port	(800) 356-8106
Liebherr USA	(757) 928-2487
Schwing America	(888) SCHWING
Scrommel	(800) 595-5293
Stephens Mfg	(270) 487-6774
Vince Hagan	(214) 330-4601

TRUCK-MOUNTED WASHOUT CAPTURE

Booster /A-1	(612) 490-1274
Enviro-Systems	(877) 434-7867
Envirochute	(250) 715-8100
Enviroguard	(425) 868-7334
Innovative Concrete	(952) 388-1772
Nu-Line Products	(866) 837-2082
Washout Watchdog	(626) 893-4170

WASHOUT EVAPORATION

Resource West	(970) 245-7104
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WATER/PH TREATMENT

Fortrans	(866) 958-7267
Kemco	(727) 573-2323

ENVIRONMENTAL, SAFETY & HEALTH

COMPLIANCE

BasicSoft	(208) 452-2296
Mapistry	(see Companies listing)
Optimum Safety	(630) 759-9908
Resource Mgt	(609) 693-8301

FIBERS

ACRYLIC

Fabpro Polymers	(800) 821-4391
ICF	(201) 482-8032

GLASS

Nycon Corp.	(800) 456-9266
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NYLON

ABC Polymer	(205) 620-9889
Euclid	(216) 692-8353
Fabpro	(800) 821-4391
ICF	(201) 482-8032
Nycon	(800) 456-9266

POLYPROPYLENE

ABC Polymer	(205) 620-9889
Master Builders	(216) 839-7500
Euclid	(216) 692-8353
Fabpro	(800) 821-4391
Forta	(800) 245-0306
GCP	(617) 876-1400
ICF	(201) 482-8032
Monahan	(888) 833-1097
Nycon	(800) 456-9266
Sika	(800) 933-7452
Solomon	(217) 522-3112

STEEL

Bekaert	(770) 514-2286
Helix Steel	(937) 432-5909

INFORMATION TECHNOLOGY

BUILDING INFORMATION MODELING

AllPlan	(844) 425-5752
StructureWorks.....	(407) 367-2400
Tekla/Trimble.....	(770) 426-5105

INFORMATION TECHNOLOGY

MANUFACTURED CONCRETE

Business Intelligence, ERP

Command Alkon.....	(205) 879-3282
PerfectJob ERP	(802) 655-0458
Quadrel	(888) 833-5557

Design

Muka Development.....	(732) 866-8686
Quadrel	(888) 833-5557
StructureWorks	(407) 367-2400

Quality Control, Product Tracking

Command Alkon.....	(205) 879-3282
Egan.....	(763) 544-4131
Quadrel	(888) 833-5557

INFORMATION TECHNOLOGY

READY MIXED

Aggregate Inventory

Koogler & Assoc.....	(352) 377-5822
Stockpile Reports	(425) 285-4303

Batch Ticketing

Command Alkon.....	(205) 879-3282
GivenHansco.....	(614) 310-0060
Jonel Engineering	(800) 432-4567
Libra Systems.....	(205) 879-3282
Marcotte Systems.....	(855) 652-6520
MPAQ	(905) 542-9411
Sydney	(203) 805-7135
Zonar.....	(206) 878-2459
Zylocon.....	(972) 591-1902

Business Intelligence, ERP

BCMI	(see Companies listing)
Command Alkon.....	(205) 879-3282
GivenHansco	(614) 310-0060
Jonel.....	(800) 432-4567
Libra.....	(205) 879-3282
LytX.....	(858) 380-3161
Marcotte	(855) 652-6520
Zonar.....	(206) 878-2459

Dispatch

BCMI	(see Companies listing)
Command Alkon.....	(205) 879-3282
Control Solutions.....	(972) 790-2415
GivenHansco.....	(614) 310-0060
Jonel Engineering.....	(800) 432-4567

Libra	(205) 879-3282
MPAQ.....	(905) 542-9411
Marcotte	(855) 652-6520
Sydney	(203) 805-7135
WMC Technologies.....	(833) 962-4357
Zylocon.....	(972) 591-1902

Driver Recordkeeping

Ace-Co	(205) 879-3282
Command Alkon.....	(205) 879-3282
LytX.....	(858) 380-3161
Zonar.....	(206) 878-2459

Driver Recruitment/Retention

Rocket Start.....	(919) 201-3158
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Fleet Analytics

Command Alkon.....	(205) 879-3282
Oshkosh/McNeilus.....	(507) 374-6321
Stratos.....	(see Companies listing)

Fleet Maintenance

TMW	(440) 721-2020
Zonar.....	(206) 878-2459

Fleet Management

Coretex	(888) 887-0935
Inform Software Corp.....	(404) 333-0233

Fuel Management

Link2Pump.....	(804) 212-2290
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Order Tracking, Ticketing

BCMI	(see Companies listing)
Command Alkon.....	(205) 879-3282
Digital Fleet	(630) 423-6827
GivenHansco.....	(614) 310-0060
Imaging Tech.....	(949) 727-2001
Jonel Eng.....	(800) 432-4567
Libra.....	(205) 879-3282
MPAQ	(905) 542-9411
Marcotte	(855) 652-6520
Zylocon.....	(972) 591-1902

Production

BCMI	(see Companies listing)
Command Alkon.....	(205) 879-3282
Complete Load	(312) 599-0838
GivenHansco	(614) 310-0060
Jonel Engineering	(800) 432-4567
Libra.....	(205) 879-3282
Marcotte Systems.....	(855) 652-6520
Quadrel	(888) 833-5557
Stonemont	(970) 674-1148
Sydney	(203) 805-7135

LICENSED PRODUCTS

BUILDING, TRANSPORTATION

Easi-Set	(540) 439-8911
Lodestar Structures.....	(833) 563-3782
Megaslab	(844) 634-2752
Pole Base.....	(231) 330-3110
Superior Walls.....	(800) 452-9255

BRANDED, UHPC MIXES

CarbonCure	(902) 442-4020
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Cor-Tuf UHPC.....	(703) 656-1445
SteeLike Inc.....	(609) 703-2020
USC Tech.....	(817) 835-4105

MASONRY UNITS

Allan Block	(800) 899-5309
Besser	(989) 354-1000
Block Up	(847) 894-2190
Cornfort Block.....	(207) 324-3250
Mason Greenstar.....	(877) 647-2569
PaveDrain.....	(888) 575-5339
Proto-Il/Pyramid.....	(602) 424-9759
Proudfoot.....	(800) 445-0034
RidgeRock	(704) 504-3358
Wausau Tile.....	(715) 359-3121

Retaining, Site Walls

Cornerstone.....	(pending Bill)
Earth Wall	(678) 594-3451
Redi-Rock.....	(866) 222-8400
Rosetta	(844) 367-9763
Superior Walls.....	(800) 452-9255
Universal Wall.....	(603) 889-4163
Verti-Create.....	(801) 571-2028

LIFT TRUCKS

FORKLIFTS

Hoist Lifttruck.....	(708) 458-2200
Hyster	(252) 931-5679
Hyundai Forklift.....	(678) 823-7777
Kalmar	(785) 242-2200
Konecranes	(937) 525-5533
MCFA/Cat	(713) 365-1000
Princeton	(614) 834-5069
Taylor Machine	(662) 773-3421
Toyota MH	(800) 226-0009

TRUCK-MOUNTED

Hiab/Moffitt	(419) 482-6000
Manitou	(262) 334-9333
Princeton	(800) 331-5851

LUBRICANTS

TRUCK

Castrol/BP	(973) 633-2200
Chevron	(800) 822-5823
Citgo	(800) 992-4846
Petrocon	(301) 730-0114
Phillips 66	(800) 368-7128
Shell Lubricants.....	(800) 237-8645

MATURITY MONITORING

SENSORS, IOT DEVICES

ACR Systems.....	(604) 591-1128
Con-Cure	(419) 737-1653
Exact Tech.....	(416) 505-9134
Gatec.....	(877) 497-6278
Hilli Sensors	(617) 470-9957
LumiCon	(888) 401-2667
Transtec.....	(512) 451-6233

SLAB HUMIDITY

Wagner Meters.....	(844) 851-5462
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MIX PLACEMENT PLANT + SITE

BOOM PUMP TRUCKS

Irving Equipment.....	(419) 448-9891
Liebherr USA.....	(757) 928-2487
Putzmeister	(262) 884-6387
Schwing	(888) SCHWING

BUCKETS—HOOKED, TRAVELING

Cleco Mfg.....	(603) 886-5472
Elernatic.....	(262) 798-9777
Gar-Bro	(800) 643-8192
Skako	(858) 271-1630

TRUCK-MOUNTED CONVEYORS

Atlas Polar.....	(416) 751-7740
Rotabell	(570) 520-8842
Theam/Westcon.....	(800) 635-8729

PUMP REFURBISHMENT

Concrete Repair.....	(651) 429-0999
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SIDE DISCHARGE TRUCKS

Tucker's	(352) 787-3157
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TOWABLE PUMPS

Liebherr USA.....	(757) 928-2487
Putzmeister	(262) 884-6387
Schwing	(888) SCHWING

MIXER TRUCKS

FRONT DISCHARGE

Indiana Phoenix.....	(877) 932-8203
Oshkosh/McNeilus.....	(507) 374-6321
Terex Advance.....	(605) 987-2603

REAR DISCHARGE

Beck Industrial.....	(210) 246-7510
Con-Tech	(507) 374-2239
Continental	(800) 231-6496
Housby	(515) 266-2666
Kimble Mixer	(800) 231-6496
Maxon	(414) 351-4000
McNeilus.....	(507) 374-6321

REFURBISHING SERVICES

McNeilus.....	(507) 374-6321
New Image	(317) 604-5204
Rush Ent.....	(830) 302-5200

TRACK-MOUNTED, OFF-ROAD

Multi-Machine Inc.....	(866) 866-8584
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VOLUMETRIC

Bay-Lynx Mfg.....	(905) 304-3900
Cernen-Tech.....	(515) 961-7407
ProAll	(855) 335-9500
Roadmaster	(800) 669-9690
Zimmerman Ind.....	(717) 733-6166

MIXER TRUCKS COMPONENTS + SUPPLIES

CHUTES

Kneppers LLC.....	(260) 636-2180
TEMA Isenmann.....	(859) 252-0613

CLEANING AGENTS

Ankem.....	(800) 527-7615
Corrosion Tech.....	(972) 271-7361
Nox-Crete.....	(402) 341-2080
Power Kleen.....	(813) 854-2648
RioMix.....	(817) 685-0006

COLLISION AVOIDANCE

Intec Video.....	(949) 859-3800
Lyb/DriveCam.....	(858) 380-3161
Preco.....	(866) 977-7326
Pro-Vision.....	(800) 576-1126
Safety Vision.....	(800) 880-8855

COMMUNICATIONS, TRACKING DEVICES

Digital Fleet.....	(630) 423-6827
NexTraq.....	(678) 762-6800
OEM Data.....	(203) 929-8431
Road King.....	(514) 395-9624
Teletrac Navman.....	(866) 527-9896
Telogis.....	(855) 404-5631
Trimble CL.....	(205) 879-3282
TruckTrax.....	(860) 800-3280
True Dispatch.....	(877) 474-5321

MIXER DRIVES

Bontiglioli USA.....	(859) 334-3333
PMP Industries.....	(513) 563-3008
ZF Industries.....	(734) 416-6200

ON-BOARD EVENT DATA RECORDER

Lyb/DriveCam.....	(858) 380-3161
SmartDrive.....	(858) 225-5550
SmartWitness.....	(312) 981-8774

ON-BOARD SCALES

Stress-Tek/Vulcan.....	(800) 237-0022
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SLUMP MONITORING

CiDRA.....	(203) 265-0035
Command Alkon.....	(205) 879-3282
Eletrondata.....	(317) 999-9988
GCP/Verifi.....	(617) 876-1400

STABILITY CONTROL

Bendix CVS.....	(440) 329-9000
Meritor Wabco.....	(248) 273-4698
Safe-T-Plus.....	(800) 872-7233

WATER METERING

Badger Meter.....	(800) 876-3837
Universal Flow.....	(248) 542-9635

NATURAL POZZOLANS

CALCINED CLAYS

Active Minerals.....	(410) 825-2920
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Advanced Cement.....	(800) 595-7552
Applied Minerals.....	(800) 356-6463
Burgess Pigment.....	(478) 552-9859
Imerys.....	(770) 645-3473
Master Builders.....	(216) 839-7500
Purebase.....	(209) 274-9143
R-E-D Industrial Products.....	(814) 591-9277

RAW/CLASSIFIED

Beaver Pumice.....	(541) 930-3127
CR Minerals.....	(800) 748-2048
Eco Material.....	(801) 984-9400
Hess Pumice.....	(800) 767-4701
Nevada Cement.....	(775) 624-4523

PIPE, UTILITY PRECAST

CAGE, REINFORCEMENT FABRICATION

CAM Equipment.....	(800) 338-0715
ERMIC.....	(763) 241-5102
MBK.....	(319) 394-3197
Mid-America.....	(870) 972-8080
Topwerk.....	(905) 575-4440

CURING

Besser.....	(989) 354-1000
CDS Inc.....	(973) 641-6857
Jaybird.....	(814) 364-1800
Johnson Gas.....	(800) 553-5422
Kemco.....	(727) 573-2323
Pathfinder.....	(616) 395-8447
Sioux Corp.....	(605) 763-3333
Steam Eng.....	(647) 749-4064

FORM RELEASE

Ankem.....	(800) 527-7615
Armoncon.....	(800) 699-2799
Cresset.....	(800) 367-2020
Hill & Griffith.....	(513) 921-1075
Kaufman.....	(410) 354-8600
Nox-Crete.....	(402) 341-2080
RioMix.....	(817) 685-0006
Strong Products.....	(888) 959-9539

FORMWORK & MOLDS

Armoncon.....	(800) 699-2799
Besser.....	(989) 354-1000
Bilco.....	(203) 934-6363
CAM Equipment.....	(800) 338-0715
Cleco.....	(603) 886-5472
Del Zotto.....	(352) 351-3834
Deslauriers.....	(800) 743-4106
Marks Metal.....	(503) 656-0901
Mid-America.....	(870) 972-8080
New Hampton.....	(641) 394-4111
Precise Forms.....	(816) 690-3400
Spillman.....	(800) 443-6767
Wall Ties & Forms.....	(913) 441-0073
Western Forms.....	(816) 241-0477
Wieser Form.....	(715) 235-2166

INSERTS

A-Lok.....	(215) 547-3366
Agru America.....	(843) 546-0600
Bilco.....	(203) 934-6363
Bowco.....	(503) 266-9405
East Jordan Iron.....	(800) 874-4100
PA Insert.....	(800) 220-4857

Polylok.....	(203) 626-6115
Popit Inc.....	(215) 945-5201
Wooster.....	(330) 264-2844

JOINT SEALANTS

A-Lok.....	(215) 547-3366
Concrete Sealants.....	(800) 332-7325
Hamilton Kent.....	(416) 675-9873
Press-Seal Gasket.....	(800) 348-7325
Oscoda Plastics.....	(800) 544-9538

LIFTING HARDWARE

A-Lok.....	(215) 547-3366
Dayton Superior.....	(937) 866-0711
Hamilton Kent.....	(416) 675-9873
Meadow Burke.....	(813) 248-1944
PA Insert.....	(800) 220-4857
Polylok.....	(203) 626-6115

PIPE, MANHOLE, TANK LINERS

A-Lok Products.....	(215) 547-3366
Agru America.....	(843) 546-0600
Hamilton Kent.....	(416) 675-9873
Seaman Corp.....	(800) 927-8578

PRODUCT HANDLING

Besser.....	(989) 354-1000
Comblift.....	(336) 314-4262
McCoy Equipment.....	(905) 985-0989
Slab Innovation.....	(450) 656-4666
Topwerk.....	(905) 575-4440
Vacuworx.....	(918) 591-3004

RFID, PRODUCT TRACKING

Data Collection.....	(936) 588-1060
Idencia.....	(978) 212-7014
InfoSight.....	(740) 642-3600

SEPTIC TANK ACCESSORIES

A-Lok.....	(215) 547-3366
Polylok.....	(203) 626-6115
Tuf-Tite.....	(847) 550-1011

VIBRATION TABLES

Besser Co.....	(989) 354-1000
Distinctive Molds.....	(800) 281-8746
Houston Vibrator.....	(713) 939-0404
Martin Engineering.....	(800) 544-2947
McCoy Equipment.....	(905) 985-0989
Mid-America.....	(870) 972-8080

VIBRATORS—PORTABLE

CP.....	(800) 760-4049
Cleveland.....	(800) 221-3298
Hamilton Form.....	(817) 590-2111
Houston Vibrator.....	(713) 939-0404
Martin Eng.....	(800) 544-2947
Oil Vibrator.....	(770) 622-1494
Vibco.....	(401) 539-2392
Wacker.....	(262) 255-0500
Wyco Tool.....	(800) 233-9926

WEAR PARTS

Besser.....	(989) 354-1000
Mid-America Mfg.....	(870) 972-8080

Pacific Alloy.....	(562) 928-1387
Tandem/Rhino.....	(612) 721-2911
Texaloy Foundry.....	(800) 367-6518

PIPE, UTILITY PRECAST—MACHINERY

Besser.....	(989) 354-1000
HawkeyePedershaab.....	(319) 394-3197
Ratec.....	(727) 363-7732
Schlusserbauer.....	(616) 742-7274
Topwerk.....	(905) 575-4440

PRECAST/PRESTRESSED

ACCESSORIES & HARDWARE

ALP Supply.....	(800) 332-7090
CAM Equipment.....	(800) 338-0715
CV Intl.....	(450) 698-1933
Concrete Access.....	(800) 336-2598
Dayton Superior.....	(937) 866-0711
DCA Products.....	(888) 833-8308
Elematic Inc.....	(262) 798-9777
High Concrete.....	(717) 336-9331
Meadow Burke.....	(515) 212-8241
Molenaar NA.....	(404) 493-7628
Power Adhesives.....	(704)334-2425
Prestress Supply.....	(863) 683-4492
Ratec.....	(727) 363-7732
Spillman.....	(800) 443-6767
Wesanco.....	(714) 739-4889

CASTING BEDS

Hamilton Form.....	(817) 590-2111
Helser Industries.....	(503) 692-6909
Sommer Anlagen.....	(616) 742-7274
Spillman.....	(800) 443-6767
Thorcast.....	(414) 339-8707

CURING TARPS

Hamilton Form.....	(817) 590-2111
Prestress Supply.....	(863) 683-4492

FORM RELEASE

Cresset.....	(800) 367-2020
Distinctive Molds.....	(800) 281-8746
Euclid.....	(216) 692-8353
Fister Quarries.....	(630) 761-0100
Nox-Crete Products.....	(402) 341-2080
Prestress Supply.....	(863) 683-4492
RioMix.....	(817) 685-0006
Strong Products.....	(888) 959-9539
W.R. Meadows.....	(847) 214-2100

FORMWORK

AES.....	(800) 210-9801
Besser.....	(989) 354-1000
Hamilton Form.....	(817) 590-2111
Helser Industries.....	(503) 692-6909
MSP Structures Inc.....	(450) 775-1341
Prestress Supply.....	(863) 683-4492
Sommer.....	(616) 742-7274

HOLLOW CORE EQUIPMENT

Elematic.....	(262) 798-9777
Nordimpant/Pathfinder.....	(616) 395-8447

Spancrete.....(414) 290-9000
Ultra Span.....(204) 992-3200

INSULATION

Kingspan.....(678) 589-7333

PLANTS

American Progress Group.....(312) 973 2559

PORTABLE ENCLOSURES

AC/Engineered Structures.....(631) 648-8715
ClearSpan.....(866) 643-1010

PRESTRESSING JACKS

Enerpac.....(262) 293-1600
Hamilton Form.....(817) 590-2111
Prestress Supply.....(863) 683-4492

PRESTRESSING STRAND

Insteel Wire.....(336) 719-9000
Sumiden Wire.....(209) 466-8924

SANDBLASTING EQUIPMENT & MEDIA

Abrasives Inc.....(701) 348-3610

THIN BRICK INLAYS

Architectural Polymers.....(610) 824-3322
County Materials/Brick.....(715) 848-1365
Innovative Brick.....(800) 413-4588

TRAILERS

See TRUCKS/Tankers, Trailers

REINFORCEMENT

ACCESSORIES

CV Plastics.....(877) 679-0688
Meadow Burke.....(515) 212-8241
Polylok.....(203) 626-6115
Spillman.....(800) 443-6767

BASALT FIBER REBAR

Basanite Industries.....(954) 532-4653
Neuvokas.....(906) 934-2661

FRP REBAR

Owens Corning.....(800) GET-PINK

GALVANIZED REBAR

AZZ Inc.....(817) 810-0095

HIGH STRENGTH REBAR

Helix Steel.....(937) 432-5909
MMFX Steel.....(949) 476-7600

REBAR BENDERS, CUTTERS

Genesco.....(416) 465-7521

REBAR TYING TOOLS

Advanced Robotics.....(412) 756-3360
Kodi Klip.....(615) 449-1880
Max USA.....(516) 741-3151

STAINLESS STEEL REBAR

Outokumpu USA.....(847) 317-1400

Salit Specialty.....(716) 299-1990

WIRE DRAWING, RECOILING

Drawing Tech.....(815) 877-5133

SAFETY EQUIPMENT

LOCKOUT

Kirk Key.....(234) 209-9826

PERSONAL PROTECTIVE

Magid Glove & Safety.....(800) 444-8030

SERVICES

APPRAISALS, AUCTIONS

Vocon.....(866) 218-6266

EMPLOYMENT

Concrete Industry.....(616) 842-0227
United Employment.....(610) 351-8070

ENGINEERING

Architectural Testing.....(717) 764-7700
CTL Group.....(847) 965-7500

FINANCING

BASYS Processing.....(913) 214-5021
Paccar Financial.....(425) 468-7400

MANAGEMENT CONSULTING

Allen Villere.....(985) 727-4310
Next Level.....(864) 360-3513
Roebuck.....(813) 251-8838
Sprockets DG.....(303) 656-9185

SUSTAINABILITY SERVICES

CARBON MANAGEMENT

Concrete-AI.....(310) 206-3084

ENVIRONMENTAL PRODUCT DECLARATIONS

ASTM Intl.....(610) 832-9500
Climate Earth.....(415) 391-2725
NSF Intl.....(800) 673-6275
Resource Mgt.....(609) 693-8301
SCS Global.....(800) 326-3228
UL Environment.....(770) 933-0638

TESTING EQUIPMENT

COMPRESSIVE STRENGTH

ELE.....(800) 323-1242
Forney LP.....(724) 346-7400
Proceq USA.....(724) 512-0330
SoundQA.....(604) 317-2702

FRESH CONCRETE

Mesa Systems.....(508) 655-6372

HARDENED CONCRETE

ACR Systems.....(604) 591-1128
James Instruments.....(773) 463-6565
Proceq USA.....(724) 512-0330

LABORATORY SUPPLIES

Calmetrix.....(617) 203-2090
Cyclonaire.....(402) 362-2000
Deslauriers.....(800) 743-4106
ELE Intl.....(800) 323-1242
Gilson.....(800) 444-1508
Humboldt.....(708) 468-6300

MATERIALS ANALYSIS

Olympus.....(781) 790-3900

MATURITY METERS, EMBEDDED DEVICES

Con-Cure.....(419) 737-1653
Concrete Sensors.....(617) 470-9957
Exact Tech.....(416) 505-9134
Giatec Scientific.....(877) 497-6278
RPX Technologies.....(405) 880-5129
Sensytec.....(832) 899-4119
Transtec Group.....(512) 451 6233
Wagner Meters.....(844) 851-5462

TRUCK COMPONENTS

AUTOMATIC LUBRICATION

Graco.....(800) 275-5574
Lubecore.....(905) 864-3110

AXLES

Detroit Diesel.....(313) 592-5082
Fabco.....(925) 245-4100
Hendrickson.....(630) 874-9700
Meritor.....(248) 435-1000

BRAKES

Eaton.....(269) 342-3000
Haldex.....(816) 891-2470
Hendrickson.....(630) 874-9700
SilverbackHD.....(855) 244-SBSB
Sterco LP.....(800) 527-8492

CENTRAL TIRE INFLATION

Continental.....(see Companies listing)
TireBoss.....(780) 451-4894

ENGINES

Cummins Engine.....(812) 377-3000
Detroit Diesel.....(313) 592-5082
MTU America.....(248) 560-8888

FILTRATION

Donaldson.....(800) 374-1374

SAFETY DEVICES

Lytex.....(858) 380-3161
Preco.....(208) 323-1000
SmartDrive.....(858) 225-5550

SUSPENSIONS

Hendrickson.....(630) 874-9700

Link.....(800) 222-6283
Reyco Granning.....(417) 466-1003
SAF-Holland.....(231) 773-3271
Simard.....(800) 423-5347
Watson & Chalm.....(972) 838-1494

TIRES

Bridgestone.....(800) 543-7522
Continental.....(see Companies listing)
Goodyear.....(330) 796-9355
Michelin NA.....(888) 622-2306

TRANSMISSIONS

Allison.....(317) 242-5000
Dana CV.....(419) 887-3535
Eaton.....(269) 342-3000

TWIN STEER

Fortaine.....(800) 366-8246
Simard.....(800) 423-5347

WHEELS

Accuride.....(812) 962-5000
Arconic.....(216) 641-3600
Wheel Pros.....(844) 427-6879

TRUCKS—CLASS 8

CNG FUELING, POWER

Clean Energy.....(949) 437-1000
Cummins Clean Fuel.....(817) 767-6020
OPW.....(800) 422-2525
Ozinga Energy.....(312) 432-5700

DUMP BODIES

East Mfg.....(888) 405-3278
J&J Bodies.....(814) 444-3400
Logan Corp.....(606) 349-1744
MAC Trailers.....(800) 795-8454
Ox Bodies.....(800) 648-1101

HEAVY-DUTY MODELS

Autocar Trucks.....(877) 973-3486
Freightliner.....(803) 578-3220
Kenworth Truck.....(425) 828-5000
Mack Trucks.....(336) 291-9001
Navistar.....(331) 332-5000
Peterbilt Motors.....(940) 591-4061
Volvo Trucks.....(336) 393-2000
Western Star.....(803) 578-3600

TANKERS, TRAILERS

Beall Trailers.....(855) 219-5686
ERMC.....(763) 241-5102
Great Dane.....(912) 644-2100
MAC Trailers.....(800) 795-8454
Nelson Mfg.....(419) 523-5321
Stephens Tank.....(800) 353-1033
Talbert.....(219) 866-7141
Trail King.....(800) 843-3324

WHEEL LOADERS

Case CE.....(866) 542-2273
Caterpillar.....(309) 675-1000
Deere.....(800) 765-9588
Doosan.....(701) 280-7862
Hyundai.....(678) 823-7777
Liebherr USA.....(757) 928-2487

42Gears Mobility Systems

48521 Warm Springs Blvd., Ste. 303
Fremont, CA 94539
(408) 758-0205
42gears.com

A-Lok Products, Inc.

697 Main St.
Tullytown, PA 19007
(215) 547-3366
a-lok.com

ABB Motors and Mechanical Inc.

5711 R.S. Boreham Jr. St.
Fort Smith, AR, 72901
(479) 646-4711
baldor.com

ABC Polymer Industries

545 Elm St.
Helena, AL 35080
(205) 620-9889
abcpolymerindustries.com

Abrasives Inc.

4090 Highway 49
Glen Ullin, ND 58631
(701) 348-3610
abrasivesinc.com

Accena/complianceGO

1700 Bluebird Rd.
Orem, UT 84097
(888) 467-0047
compliancego.com

Accuride Wheel End

7140 Office Cir.
Evansville, IN 47715
(812) 962-5000
accuridecorp.com

Ace World Companies

10200 Jacksboro Hwy.
Fort Worth, TX 76135
(817) 237-7700
aceworldcompanies.com

ACM Chemistries, Inc.

P.O. Box 920430
Norcross, GA 30010
(770) 417-3490
acmchem.com

ACR Systems Inc.

201-15110-54A Ave.
Surrey, BC VS3 5X7 Canada
(604) 591-1128
acrsystems.com

Active Minerals Intl.

34 Loveton Cir.
Sparks, MD 21152
(410) 825-2920
activeminerals.com

Additive Engineering Solutions

990 Evans Ave.
Akron, OH 44305
(800) 210-9801
additiveeng.com

Advanced Cement Technologies

435 Martin St., Ste. 2040
Blaine, WA 98231
(800) 595-7552; (360) 332-7060
metakaolin.com

Advanced Concrete Technologies, Inc.

300 Portsmouth Ave.
Greenland, NH 03840
(603) 431-5661
concretebiz.com

Advanced Construction Robotics

3812 William Finn Hwy #3H
Allison Park, PA. 15101
(412) 756-3360
acrbots.com

Advanced Custom Engineered Structures

155 Raynor Ave.
Ronkonkoma, NY 11779
(631) 648-8715
ace-structures.com

Advanced Technical Services

P.O. Box 825
Cedar Falls, IA 50613
(319) 277-5401
ats-inc.net

Aggregate Drying Systems

6 Cordoba
Irvine, CA 92614
(888) 374-4495
adsdryers.com

Agility Fuel Systems

2500 Red Hill Ave., Ste. 240
Santa Ana, CA 92705
(949) 383-9551
agilityfs.com

Agru America, Inc.

500 Garrison Rd.
Georgetown, SC 29440
(843) 546-0600
agruamerica.com

Airgas/Air Liquide Co.

259 N. Radnor Chester Rd., Ste. 100
Radnor, PA 19087
(610) 397-2829
airgas.com

Airmatic Inc.

284 Three Tun Rd.
Malvern, PA 19355
(800) 838-4751
airmatic.com

Alabama Pallets

P.O. Box 167
Valley Park, MO 63088
(888) 530-7337
steelpallets.org

Alar Engineering Corp

9651 W. 196th St.
Mokena, IL 60448
(708) 479-6100
alarcorp.com

Alaska Basic Industries

1040 O'Malley Rd.
Anchorage, AK 99515
(907) 349-3333
anchsand.com

Albarrie Environmental

340 Huronia Rd.
Barrie, ON L4N 8Y9 Canada
(866) 269-8275
albarrie.com

Alex Lyon & Son

P.O. Box 610, Rd 2
Bridgeport, NY 13030
(315) 633-2944
lyonauction.com

Allan Block Corp.

7424 W 78
Bloomington, MN 55439
(800) 899-5309
allanblock.com

Allen Villere Partners

1120 W. Causeway, Ste. 200
Mandeville, LA 70471
(985) 727-4310
allenvillere.com

Allison Transmission

One Allison Way
Indianapolis, IL 46222
(317) 242-5000
allisontransmission.com

Allplan Inc.

10 N High St., Ste. 110
West Chester, PA 19380
(844) 425-5752
allplan.com

ALP Supply

300 Ben Fairless Dr.
Fairless Hills, PA 19030
(800) 332-7090
patterson-online.com

American Bin & Conveyor

221 Front St.
Burlington, WI 53105
(262) 763-0123
americanconveyor.com

American Cement Co.

P.O. Box 445
Sumterville, FL 33585
(352) 569-5397
americacementcompany.com

American GeoThermal

1037 Old Salem Rd.
Murfreesboro, TN 37129
(615) 890-6985
amgeo.com

American Progress Group

150 N. Michigan Ave., 35th Floor
Chicago, IL 60601
(312) 973 2559
americanprogressgroup.com

Ankem

3304 Towerwood Dr.
Farmers Branch, TX 75234
(800) 527-7615
ankem.com

Aoms Technologies Inc.

see Lumicon

Aplus Finetek Sensor Industrial Drive

1741 Industrial Dr.
Sterling, IL 61081
(815) 632-3132
aplusfine.com

Applied Minerals, Inc.

110 Greene St.
New York, NY 10012
(800) 356-6463
amironoxides.com

Architectural Polymers

1220 Little Gap Rd.
Palmerton, PA 18071
(610) 824-3322
apformliner.com

Architectural Testing Inc.

130 Derry Ct.
York, PA 17406
(717) 764-7700
archtest.com

Arcosa Inc.

500 N. Akard St., Ste. 400
Dallas, TX 75201
(972) 942-6500
arcosa.com

Argonics

520 9th St.
Gwinn, MI 49841
(906) 226-9747
argonics.com

Argos USA

3015 Windward Pl., Ste. 300
Alpharetta, GA. 30005
(678) 368-4300
argos-us.com

Armcon Molds USA

127 Maple Ln.
Lebanon, PA 17042
(800) 699-2799
armconmoldsusa.com

Ash Grove Cement

11011 Cody St., Ste. 300
Shawnee Mission, KS 72205
(913) 451-8900
ashgrove.com

Astec Industries

725 Shepherd Rd.
Chattanooga, TN 37421
(423) 899-5898
astecindustries.com

Atlas Polar

60 Northline Rd.
Toronto, ON M4B 3E5 Canada
(416) 751-7740
atlaspolar.com

Autocar Trucks

551 S. Washington St.
Hagerstown, IN 47346
(877) 973-3486
AutocarTruck.com

Automacad Inc.

240 Avenue Liberte
Candiac, QC J5R 6X1 Canada
(450) 632-6323
automacad.com

AZZ Inc

3100 W 7th St., Ste. 500
Fort Worth, TX 76107
(817) 810-0095
azz.com

Badger Meter

4545 W. Brown Deer Rd.
Milwaukee, WI 53224
(800) 876-3837
badgermeter.com

Bailey Parks Urethane

184 Gilbert Ave.
Memphis, TN 38106
(866) 906-7779
baileyparks.com

Barnes Industrial Group

429 Sovereign Ct.
Manchester, MO 63011
(877) 870-5777
barnesindustrialgroup.com

Basanite Industries, LLC

2041 NW 15th Ave.
Pompano Beach, FL 33069
(954) 532-4653
basaniteindustries.com

BasicSoft Inc.

P.O. Box 403
Fruitland, ID. 83619
(208) 452-2296
basicsafe.us

BASYS Processing

15423 W. 100 Ter.
Lenexa, KS
(913) 214-5021
basyspro.com

Bay-Lynx Manufacturing

P.O. Box 81157
Ancaster, ON L9G 4X2 Canada
(905) 304-3900
bay-lynx.com

BCMI Corp.

1329 State St., Ste. 306
Bellingham, WA 98225
bcmicorp.com

Beall Trailers

9200 N. Ramsey Blvd.
Portland, OR 97203
(855) 219-5686
bealltrailers.com

Beaver Pumice

4003 Crater Lake Hwy.
Medford, OR. 97504
(541) 930-3127
beaverpumice.com

Beck Industrial

2003 FM 1516
Converse, TX 78109
(210) 246-7510
beckindustrial.com

Bekaert

1395 S. Marietta Pkwy, Ste. 100
Marietta, GA 30067
(770) 514-2286
bekaert.com

Bendix CVS

901 Cleveland St.
Elyria, OH 44035
(440) 329-9000
bendix.com

Bergen Industries

1120 Oak Hill Rd.
Mountain Top, PA 18707
(800) 722-0920
bergenindustries.net

Besser Co.

801 Johnson St.
Alpena, MI 49707
(989) 354-1000
besser.com

Betonblock

2006 Cherry Hill Ln.
Charleston, SC 29405
(843) 901-6505
betonblock.com

BFK Technologies Inc.

1113 Park Ave.
Kiel, WI 53042
(920) 894-1113
BFKTech.com

BHA

11501 Outlook St.
Overland Park, KS 66211
(800) 821-2222
bha.com

BHS-Sonthofen, Inc.

14300 South Lakes Dr.
Charlotte, NC 28273
(704) 814-7671
bhs-sonthofen.com

Bi State Rubber

P.O. Box 608
Fenton, MO 63026
(636) 349-2388
bistaterubber.com

Bibko NA

P.O. Box 902
Cedarfalls, IA 50613
(855) 242-5687
concretereclaiming.com

Bilco Co.

37 Water St.
West Haven, CT 06516
(203) 934-6363
bilco.com

Bilfinger Water Technologies

1950 Old Hwy. 8 NW
Arden Hills, MN 55112
(651) 636 3900
aqseptance.com/en

Bindicator Co.

150 Venture Blvd.
Spartanburg, SC 29306
(800) 778-9242
bindicator.com

BinMaster

7201 N. 98th St.
Lincoln, NE 68507
(402) 434-9102
binmaster.com

Blasters Ready Jet, Inc.

7815 Professional Pl.
Tampa, FL 33637
(813) 985-4500
ready-jet.com

Block Up

10500 S. Hamilton Ave.
Chicago, IL 60643
(847) 894-2190
block-up.com

Blue Level Technologies

3778 Timberlake Dr.
Richfield, OH 44286
(888) 615-3835
blueleveltechnologies.com

Blue Planet Systems

100 Cooper Ct.
Los Gatos, CA 95032
blue-planet-ltd.com

BMH Systems

1395 Rue Rene-Descartes
Saint Bruno-de-Montarville,
QC J3V 0B7 Canada
(888) 793-9340
bmhsystems.com

Bonfiglioli USA

3541 Hargrave Dr.
Hebron, KY 41048
(859) 334-3333
BonfiglioliUSA.com

Booster Washout/A-1

14698 Galaxie Ave.
Apple Valley, MN 55124
(612) 490-1274
boosterwashout.com

BorgWarner Thermal Systems

1507 S. Kalamazoo Ave.
Marshall, MI 49068
(231) 878-0584
borgwarner.com

Bowco Industries Inc.

155 SE Hazel Dell Way
Canby, OR 97013
(503) 266-9405
bowcoind.com

Bridgestone Americas Tire Operations LLC

535 Marriott Dr.
Nashville, TN 37214
(800) 543-7522
bridgestonetrucktires.com

Brokk

1166 Village Way
Monroe, WA 98272
(360) 794-1277
brokk.com

Buildex Inc.

P.O. Box 77
Ottawa, KS 66067
(785) 242-2177
buildex.com

Burgess Pigment

525 Beck Blvd.
Sandersville, GA 31082
(478) 552-9859
BurgessPigment.com

Butterfield Color

625 W. Illinois Ave.
Aurora, IL 60506
(630) 906-1980
butterfieldcolor.com

Buzzi Unicem USA

100 Brodhead Rd., Ste. 230
Bethlehem, PA 18017
(610) 882-5000
buzziunicemusa.com

C&W DustTech

6933 Shelmor Rd.
Alvarado, TX 76009
(800) 880-3878
cwmfg.com

Caldwell Group

5025 26th Ave.
Rockford, IL 61109
(815) 229-5667
caldwellinc.com

Calmetrix Inc.

(302) 367-3160
calmetrix.com

CalPortland Co.

2025 East Financial Way
Glendora, CA 91741
(626) 852-6200
calportland.com

CAM Equipment Sales

P.O. Box 603
Ludington, MI 49431
(800) 338-0715
camsales.com

Capital Equipment Co.

9714 Ensley Ln.
Leawood, KS 66206
(816) 830-6421
capitalequipmentco.com

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San Antonio, TX 78265
(210) 871-6100
capitolaggregates.com

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4927-B Sherbrooke St. W
Westmount, QC H3Z 1H2 Canada
(514) 210-5078
carbocrete.com

Carboclave

Kitchener, ON Canada
(514) 570-8634
carboclave.com

CarbonBuilt

570 Westwood Plaza
Los Angeles, CA 90095
carbonbuilt.com

CarbonCure Technologies

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Dartmouth, NS B3B 1Z6 Canada
(902) 442-4020
carboncure.com

Cardinal Scale Mfg.

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Webb City, MO 64870
cardet.com
(417) 673-4632

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Pittsburgh, PA 15225
carmeusena.com
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Salisbury, NC 28145
stalite.com
(800) 898-3772

Case Construction Equipment

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Racine, WI 53402
(866) 542-2273
casece.com

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(973) 633-2200
castrol.com

Caterpillar Inc.

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Peoria, IL 61629
(309) 675-1000
cat.com

Cathay Pigments

303 E. Main St.
St. Charles, IL 60174
(855) 422-8429
cathaypigments.com

CCTY Bearing

1111 Rose Rd.
Lake Zurich, IL 60047
(847) 540-8196
CCTYBearing.com

CDS Inc.

P.O. Box 478
Boonton, NJ 07005
(973) 641-6857
cds-group.co.uk

CEI Enterprises

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Albuquerque, NM 87102
(423) 867-4210
ceienterprises.com

Cemco Inc.

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Olney, TX 76374
(855) 564-5855
cemcoinc.com

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1700 N. 14th St.
Indianola, IA 50125
(515) 961-7407
cementech.com

Cemex USA

920 Memorial City Way, Ste. 100
Houston, TX 77024
(713) 650-6200
cemex.com

Cetco Energy Services

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Columbia, MO 65203
(573) 228-8057
cetcoenergyservice.com

Chameleon Innovations

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chameleon.ca

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Louisville, KY 40222
(800) 822-5823
chevrondelo.com

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Commerce City, CO 80022
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cp.com

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(203) 265-0035
cidra.com

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citgo.com

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(800) 423-4585
claytonindustries.com

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Newport Beach, CA 92660
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cleanenergyfuels.com

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(866) 643-1010
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(603) 886-5472
clecoforms.com

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St. Louis, MO 63132
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cmw-equip.com

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columbiemachine.com

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eganco.com

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eleusa.com

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ednorthamerica.com

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Valley City, OH 44280
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enerpac.com

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(800) 356-8106
enviro-port.com

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envirochute.com

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Redmond, WA 98052
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Toronto, ON M5R 2A7 Canada
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Livermore, CA 94551
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Fabpro Polymers

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Kingman, KS 67068
(800) 821-4391
FabproFibers.com

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Gridley, KS 66852
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fcsmf.com

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ndjames.com

Jaybird Manufacturing

135 Summer Ln.
Centre Hall, PA 16828
(814) 364-1800
jaybird-mfg.com

Johnson Gas Appliance

520 E Ave. NW
Cedar Rapids, IA 52405
(800) 553-5422
johnsongas.com

Jonel Engineering

500 East Walnut Ave.
Fullerton, CA 92832
(800) 432-4567
jonel.com

Kalmar

415 E. Dundee St.
Ottawa, KS 66067
(785) 242-2200
kalmar.com

Kaufman Products

3811 Curtis Ave.
Baltimore, MD 21226
(410) 354-8600
kaufmanproducts.net

Kemco Systems

1150 47th St. N
Clearwater, FL 33762
(727) 573-2323
kemcosystems.com

Kenworth Truck

10630 NE 38th Pl.
Kirkland, WA 98033
(425) 828-5000
kenworth.com

Kimble Mixer Co.

See Continental Mixer
kimblemixer.com

Kingspan Insulation

2100 Riveredge Pkwy., Ste. 175
Atlanta, GA 30328
(678) 589-7333
kingspaninsulation.us

Kirk Key

9048 Meridian Cir. NW
North Canton, OH 44720
(234) 209-9826
kirkkey.com

Kneppers LLC

2359 N. 300 E
Albion, IN 46701
(260) 636-2180
concretechute.com

Kobra Molds

2801 Enroe St.
Hudson, WI 54016
(715) 381-8322
kobragroup.com

Kodi Klip

1401 Toshiba Dr.
Lebanon, TN 37087
(615) 449-1880
kodiklip.com

Konecranes Inc.

4401 Gateway Blvd.
Springfield, OH 45502
(937) 525-5533
konecranes.com

Koogler & Associates, Inc.

4014 NW 13th St.
Gainesville, FL 32609
(352) 377-5822
kooglerassociates.com

Kraft Curing Systems

300 Ben Fairless Dr.
Fairless Hills, PA 19030
(267) 793-1005
kraftcuring.com

Krete Inc.

P.O. Box 343
Butler, WI 53007
(800) 777-9562
krete.com

Kryton International Inc.

1645 East Kent Ave. N
Vancouver, BC V5P 2S8 Canada
(604) 324-8280
kryton.com

L.M. Scofield Co.

4155 Scofield Rd.
Douglasville, GA 30134
(770) 920-6079
scofield.com

Lafarge US

See Holcim (US) Inc.

Lanxess

111 RIDC Park West Dr.
Pittsburgh, PA 15275
(412) 809-1546
lanxess.com

Le Sueur Manufacturing

3220 Lorna Rd.
Birmingham, AL 35216
(205) 822-0720
lesueurmoisturecontrols.com

Lehigh Cement Co.

300 E John Carpenter Fwy, Ste. 1645
Irving, TX 75062
(800) 527-2362
lehighcement.com

Lehigh White Cement Co.

1601 Forum Pl., Ste. 1110
West Palm Beach, FL 33401
lehighwhitecement.com

Leimro Sp. z.o.o.

Konstancin, Poland
48 22 754 12 74
leimro.com

Lhoist North America

P.O. Box 985004
Fort Worth, TX 76185-5004
(972) 827-9720
lhoist.us

Liebherr USA

4100 Chestnut Ave.
Newport News, VA 23607
(757) 928-2487
liebherr.com

Libra Systems Corp.

220 Stahl Rd.
Harleysville, PA 19438
(215) 256-1700
librasystems.com

Link Manufacturing

223 15th St. NE
Sioux Center, IA 51250
(800) 222-6283
linkmfg.com

Link2Pump

Miami Beach, FL 33139
(804) 212 2290
link2pump.com

Loadcraft Industries

3811 N. Bridge St.
Brady, TX 76825
(325) 597-2911
loadcraft.com

Lodestar Structures

1645 Sydenham Rd.
Kingston, ON K7L 4V4 Canada
(833) 563-3782

Logan Corp.

124 Ward Rd.
Salyersville, KY 41465
(606) 349-1744
logandumpbodies.com

Ludell Mfg.

5200 W. State St.
Milwaukee, WI 53208
(800) 558-0800
ludellmanufacturing.com

LumiCon/Brickeye

(888) 401-2667
lumicon.io

Lytix

8911 Balboa Ave.
San Diego, CA 92123
(858) 380-3161
lytix.com

M2 Solutions Inc.

P.O. Box 7306
Mobile, AL 36607
(786) 401-2226
M2.solutions

M A Industries Inc.

303 Dividend Dr.
Peachtree City, GA 30269
(770) 487-7761
maind.com

MAC Trailers

14599 Commerce St. NE
Alliance, OH 44601
(800) 795-8454
mactrailer.com

Mack Trucks

7825 National Service Rd.
Greensboro, NC 27409
(336) 291-9001
macktrucks.com

Magid Glove & Safety Manufacturing, LLC

1300 Naperville Dr.
Romeoville, IL 60446
(800) 444-8030
magidglove.com

Manitex Inc.

3000 S. Austin Ave.
Georgetown, TX 78626
(877) 314-3390
manitex.com

Manitou Americas

One Gehl Way
West Bend, WI 53095
(262) 334-9333
manitou.com

Mapei Admixtures

1144 E. Newport Center Dr.
Deerfield Beach, FL 33442
(954) 246-8888
mapei.com

Mapistry, Inc.

2120 University Ave.
Berkeley, CA 94703
mapistry.com

Marcotte Systems

50 de Lauzon St., Ste. 100
Boucherville, QC J4B 1E6 Canada
(855) 652-6520
marcottesystems.com

Marks Metal Technology

10300 SE Jennifer St.
Clackamas, OR 97015
(503) 656-0901
marksmetal.com

Martin Engineering Vibration Solutions

3600 Cougar Dr.
Peru, IL 61354
(800) 544-2947
martin-eng.com

Martin Marietta Materials

2710 Wycliff Rd.
Raleigh, NC 27607
(919) 781-4550
martinmarietta.com

Masa USA

2006 Wery Ln.
Green Bay, WI 54313
(920) 497-0390
masa-group.com

Mason Greenstar Inc.

P.O. Box 1420
Mason, TX 76856
masongreenstar.com
(877) 647-2569

Matec America

130 Plant St.
Walnut Cove, NC 27052
(270) 841-9180
matecamerica.com

Max USA

205 Express St.
Plainview, NY 11803
(516) 741-3151
maxusacorp.com

Maxon Industries Inc.

3204 Mill Rd.
Milwaukee, WI 53209
(414) 351-4000
maxon.com

Master Builders Solutions

23700 Chagrin Blvd.
Beachwood, OH 44122
(216) 839-7500
master-builders-solutions.com
mbcc-group.com

McCoy Equipment

155 N. Port Rd.
Port Perry, ON L9L 1B2 Canada
(905) 985-0989
jmccoyequipment.com

McInnis Cement Inc.

See St. Marys Cement
cimentmcinnis.com

McLanahan Corp.

200 Wall St.
Hollidaysburg, PA 16648
(814) 695-9807
mclanahan.com

McNeilus Companies

524 E. Highway St.
Dodge Center, MN 55927
mcneiluscompanies.com

MCT Group

10285 Mott Dr.
Reno, NV 89521
(727) 560-5414
marcantonini.com

Meadow Burke

2835 Overpass Rd.
Tampa, FL 33619
(813) 248-1944
meadowburke.com

Megaslab Inc.

Marietta, GA
(844) 634-2752
megaslab.com

Meridian Manufacturing

P.O. Box 760
275 Winkler, MB R6W 4A8 Canada
(800) 665-7259; (204) 325-7883
meridianmfg.com

Meritor

2135 W. Maple Rd.
Troy, MI 48084
(248) 435-1000
meritor.com

Merts/Pathfinder Systems

500 Oakland Ct.
Leesburg, GA 31763
(229) 435-3315
merts.com

Mesa Systems Co.

8 Broad St.
Stonington, CT 06378
(508) 655-6372
mesasystemsco.com

Mi-Jack Products

3111 W. 167th St.
Hazel Crest, IL 60429
(708) 225-2312
mi-jack.com

Michelin North America

P.O. Box 19001
Greenville, SC 29602
(888) 622-2306
michelintruck.com

Mid-America Manufacturing

3907 Harrisburg Rd.
Jonesboro, AR 72402
(870) 972-8080
maculvert.com

Mixer Systems, Inc.

P.O. Box 10
Pewaukee, WI 53072
(800) 756-4937
mixersystems.com

MMFX Steel Corp.

2415 Campus Dr., Ste. 100
Irvine, CA 92612
(949) 476-7600
mmfx.com

Molenaar NA

3625 Greenside Ct.
Dacula, GA 30019
(404) 493-7628
molenaar-americas.com

Monahan FiberWorx

215 Egyptian Tr.
Arcola, IL 61910
(888) 833-1097
fiber-worx.com

Monarch Cement Co.

P.O. Box 1000
Humboldt, KS 66748
(620) 473-2222
monarchcement.com

Monitor Technologies

44W320 Keslinger Rd
Elburn, IL 60119
(800) 601-6319
monitortech.com

Mountain Cement Co.

5 Sand Creek Rd.
Laramie, WY 82070
(307) 745-4879
mountaincement.com

MPAQ Automation Inc.

14-3300 Ridgeway Dr.
Mississauga, ON L5L 5Z9 Canada
(905) 542-9411
mpaq.com

MSP Structures Inc.

162 Cowie St., Ste. 100
Granby, QC J2G 3V3 Canada
(450) 775-1341

MTU America

39525 MacKenzie Dr.
Novi, MI 48377
(248) 560-8888
mtu-online.com

MudBots 3D Concrete Printing

930 W. 410 N. #100
Lindon, UT 84042
mudbots.com

Muka Development Group

303 W Main St.
Freehold, NJ 07728
(732) 866-8686
titaniisoftware.com

Muller

3644 W. Lake Ave.
Glenview, IL 60026
(800) 628-6787
mullerics.com

Multi-Machine Inc.

2 Vliet Farm Rd.
Asbury, NJ 08802
(866) 866-8584
multimachineinc.com

Munson Machinery

210 Seward Ave.
Utica, NY 13502
(315) 797-0090
munsonmachinery.com

MW Watermark LLC

4660 136th Ave.
Holland, MI 49424
(616) 399-8850
mmwatermark.com

NSF International

P.O. Box 130140
Ann Arbor, MI 48105
(800) 673-6275
nsf.org

National Bulk Equipment

12838 Stainless Dr.
Holland, MI 49424
(616) 399-2220
nbe-inc.com

National Combustion

104-11 180th St.
Jamaica, NY 11433
(888) 656-2826
nationalcombustion.com

National Concrete Corp.

P.O. Box 4604
South Bend, IN 46634
(574) 289-1097
nationalconcrete.com

National Minerals Corp.

12271 Margo Ave. S
Hastings, MN 55033
(844) 454-5400
nmcflyash.com

Navistar International

2701 Navistar Dr.
Lisle, IL 60532
(331) 332-5000
navistar.com

Nederman

102 Transit Ave.
Thomasville, NC 27360
(800) 533-5286
nederman.com

Nelson Manufacturing Co.

6448 US Route 224
Ottawa, OH 45875
(419) 523-5321
nelsontrailers.com

Neoculus Technologies

500 rue de l'Argon
Quebec City, QC G2N 2E1 Canada
(418) 694-9385
neoculus.com

Neuvokas Corp.

3206 Number 6 Rd.
Ahmeek, MI 49901
(906) 934-2661
neuvokascorp.com

Nevada Cement Co.

P.O. Box 840
Fernely, NV 89408
(775) 575-2281
nevadacement.com

New Hampton Metal Fab

P.O. Box 332
New Hampton, IA 50659
(641) 394-4111
newhamptonmetalfab.com

New Image Mixers

701 Hodel Dr.
Shelbyville, IN 46176
(317) 604-5204

New Riverside Ochre

75 Old River Rd. SE
Cartersville, GA 30120
(800) 248-0176
nrochre.com

Next Level Essentials

2607 Woodruff Rd., Ste. E
Greenville, SC 29681
(864) 360-3513
nextlevelessentials.net

NexTraq

1200 Lake Hearn Dr., Ste. 500
Atlanta, GA 30319
(678) 762-6800
nextraq.com

NITROcrete

2040 SE Frontage Rd.
Fort Collins, CO 80525
(970) 587-7863
nitrocrete.com

Norchem

960 Wheeler Rd., #5537
Hauppauge, NY 11788
(631) 724-8639
norchem.com

Norlite LLC

628 S. Saratoga St.
Cohoes, NY 12047
(800) 322-2446
norliteagg.com

Nox-Crete Products Group

1444 S. 20th St.
Omaha, NE 68108
(402) 341-2080
nox-crete.com

Nu-Line Products Inc.

891 Arvine Ave.
Hamilton, ON L8E 5N9 Canada
(866) 837-2082
nuline.ca

Nycon Corp.

300 Ben Fairless Dr.
Fairless Hills, PA 19030
(800) 456-9266
nycon.com

OEM Data Delivery

10 Controls Dr.
Shelton, CT 06484
(203) 929-8431
oemdd.com

Optimum Safety Management

550 Warrenville Rd., Ste. 200
Lisle, IL 60532
(630) 759-9908
Optimum-USA.com

OPW

9393 Princeton-Glendale Rd.
Hamilton, OH 45011
(800) 422-2525
opwglobal.com

Oli Vibrator Buford

4070 Buford Hwy., Ste. 5
Duluth, GA 30096
(770) 622-1494
olivibrator.com

Olympus Scientific Solutions Americas

48 Woerd Ave.
Waltham, MA 02453
(781) 790-3900
olympus-ims.com

Omya North America

9987 Carver Rd., Ste. 300
Cincinnati, OH 45242
(513) 387-4600
omya-na.com

OpSmart/iActEx LLC

(716) 650-0848
op-smart.com

Oquamax Water Recycling

3575 Blossom Dr. NE
Salem, OR 97305
(503) 930-8875
oquamax.com

Osburn Trucking

2333 S. Jupiter Rd.
Garland, TX 75041
(972) 205-9086
osburncontractors.com

Oscoda Plastics Inc

5585 N. Huron Ave.
Oscoda, MI 48750
(800) 544-9538
oscodaplastics.com

Outokumpu Stainless USA

2275 Half Day Rd., Ste. 300
Bannockburn, IL 60015
(847) 317-1400
outokumpu.com

Owens Corning Infrastructure Solutions

One Owens Corning Pkwy.
Toledo, OH 43659
owenscorning.com

Ox Bodies Inc.

719 Columbus St. E
Fayette, AL 35555
(800) 648-1101
oxbodies.com

Ozinga Energy LLC

2222 S. Lumber St.
Chicago, IL 60616
(312) 432-5700
energy.ozinga.com

PA Insert Corp.

490 1st Ave.
Royersford, PA 19468
(800) 220-4857
pennsylvaniainsert.com

Paccar Financial

777 106th Ave. NE
Bellevue, WA 98004
(425) 468-7400
PaccarFinancial.com

Pacific Alloy Casting

5900 Firestone Blvd.
South Gate, CA 90280
(562) 928-1387
pacificalloy.com

PalFleet Truck/Tiffin

4151 W State Rt 18
Tiffin, OH 44883
(419) 448-8156
tiffinocrane.com

Pathfinder Systems

695 Ottawa Beach Rd.
Holland, MI 49424
(616) 395-8447
pathfindersystem.com

PaveDrain LLC

247 Freshwater Way, Ste. 520
Milwaukee, WI 53204
(888) 575-5339
pavedrain.com

Pearson Heating Systems

29526 Canvasback Dr.
Easton, MD 21601
(410) 770-4617
pearsonsystems.com

Penetron

45 Research Way, Ste. 203
E Setauket, NY 11733
(631) 941-9700
penetron.com

PerfectJob ERP

64 South St.
Essex Junction, VT 05452
(802) 655-0458
perfectjoberp.com

Peri Pave

7135 Dorsey Run Rd.
Elkridge, MD 21075
(410) 712-7225
peri-usa.com

Peterbilt Motors

1700 Woodbrook St.
Denton, TX 76205
(940) 591-4061
peterbilt.com

Petrocon

PO Box 410
Frederick, MD 21705
(301) 730-0114
petrocon.org

Phillips 66 Lubricants

2331 CityWest Blvd.
Houston, TX 77042
(800) 368-7128
phillips66lubricants.com

Phoenix Process Equipment

2402 Watterson Tr.
Louisville, KY 40299
(502) 499-6198
dewater.com

Plant Architects/Plant Outfitters

18866 - 103 Stone Oak Pkwy Drawer 4
San Antonio, TX 78258
(210) 562-9262
robertober.com

PMP Industries, Inc

4460 Lake Forest Dr., Ste. 228
Cincinnati, OH 45242
(513) 563-3008
pmp-industries.com

Polarmatic North America

201 E. Fifth St., 19th Floor
Cincinnati, OH 45202
(603) 315-7598
polarmatic.com

Pole Base

05481 US 31 S
Charlevoix, MI 49720
(844) 866-9097
makepolebase.com

Polylok

3 Fairfield Blvd.
Wallingford, CT 06492
(203) 626-6115
polylok.com

Popit, Inc.

922 S. Woodbourne Rd.
Levittown, PA 19057
(215) 945-5201
popitplug.com

Power Adhesives

1209 Lilac Rd.
Charlotte, NC 28203
(704) 334-2425
poweradhesives.com

Power Kleen Corp.

101 S. Bayview Blvd.
Oldsmar, FL 34677
(813) 854-2648
powerkleen.com

Praxair Inc.

175 East Park Dr.
Tonawanda, NY 14150
(716) 879-2619
praxair.com

Precise Forms

201 N. Spruce St.
Bates City, MO 64011
(816) 690-3400
preciseforms.com

Preco Electronics

10335 Emerald St. #100
Boise, ID 83704
(866) 977-7326; (208) 323-1000
preco.com

Premier Construction Products Group

109 Giles Pl.
Waynesville, NC 28786
(302) 218-4987
premiercpg.com

Press-Seal Gasket Corp.

P.O. Box 10482
Fort Wayne, IL 46852
(800) 348-7325
press-seal.com

Prestress Supply

1804 W. Lake Parker Dr.
Lakeland, FL 33805
(863) 683-4492
prestressupply.com

Princeton Delivery Systems

12233 Williams Rd.
Perrysburg, OH 43551
(800) 331-5851
piggy-back.com

Prism Corp.

1251 Arundel St.
Saint Paul, MN 55117
(651) 488-4250
prismpigments.com

Pristine Environmental

P.O. Box 610
Saint Joseph, MN 56374
(320) 529-4035
fullcirclewater.com

Pro-Vision

8625-B Byron Commerce Dr. SW
Byron Center, MI 49315
(800) 576-1126
seeingissafety.com

ProAll International Mfg.

5810-47 Ave.
Olds, AB T4H 1V1 Canada
(855) 335-9500
proallinc.com

Proceq USA, Inc.

117 Corporation Dr.
Aliquippa, PA 15001
(724) 512-0330
proceq.com

Procure/Advanced Chemical Technology

3910 Holden Rd.
Lakeland, FL 33803
(863) 937-1914
procureusa.com

Proto-II Wall Systems

Pyramid Builders Corp.
P.O. Box 729
Glendale, AZ 85311
(602) 424-9759
protoii.com

Proudfoot Co.

P.O. Box 276
Monroe, CT 06468
(800) 445-0034
theproudfootcompany.com

Purebase

8631 Highway 121
Lone, CA 95640
(209) 274-9143
purebase.com

Putzmeister America, Inc.

1733 90th St.
Sturtevant, WI 53177
(262) 884-6387
PutzmeisterAmerica.com

QMC Cranes LLC

450 E Glendale Ave.
Sparks, NV 89431
(775) 507-5356
qmccranes.com

Quadra USA

2 N. Central Ave., Ste. 1800
Phoenix, AZ 85004
(602) 373-2951
quadra-concrete.com

Quadrel Inc.

5001 Baum Blvd., Ste. 434
Pittsburgh, PA 15213
(888) 833-5557
iQuadrel.com

Rampf Molds Industries

10 Western Maryland Pkwy.
Hagerstown, MD 21740
(301) 791-6880
rampf.com

Rapid International USA

7081 Brighton Blvd.
Commerce City, CO 80022
(303) 853-0068
rapidintl.com

Ratec

6003 126th Ave. N
Clearwater, FL 33760
(727) 363-7732
ratec.org

R-E-D Industrial Products

4 Village Park Dr., Ste. 110
Grove City, PA 16127
(814) 591-9277

Redi-Mix Solutions

12212 State Hwy 155
Palestine, TX 75803
(866) 967-7700
redimixsolutions.com

Redi-Rock International

05481 US 31 S
Charlevoix, MI 49720
(866) 222-8400
redi-rock.com

Rekers North America

175 Clearbrook Rd.
Elmsford, NY 10523
(914) 347-7446
rekers.de

Resource Management Associates

P.O. Box 512
Forked River, NJ 08731
(609) 693-8301
rماغreen.com

Resource West Inc.

2245 Colex Dr.
Grand Junction, CO 81505
(970) 245-7104
resourcewest.com

Rexcon

2841 Whiting Rd.
Burlington, WI 53105
(262) 539-4473
rexcon.com

Reyco Granning

1205 Industrial Park Dr.
Mount Vernon, MO 65712
(417) 466-1003
reycogranning.com

Rice Lake Weighing Systems

230 W. Coleman St.
Rice Lake, WI 54868
(715) 234-9171
rlws.com

Richway Industries

P.O. Box 508
Janesville, IA 50647
(319) 987-2976
richway.com

RidgeRock Retaining Walls

P.O. Box 241233
Charlotte, NC 28273
(704) 504-3358
ridge-rock.com

Road King Technologies

4420 Cote de Liesse, Ste. 118
Ville Mont-Royale, QC H4N 2P7
Canada
(514) 395-9624
roadkingtech.com

Roadmaster Concrete Mixers

6110 NE 127th Ave.
Vancouver, WA 98682
(800) 669-9690
rmmixer.com

Roanoke Cement Co.

6071 Catawba Rd.
Troutville, VA 24175
(800) 782-7622
titanamerica.com

Rocket Start

10725 Beaver Pond Ln.
Raleigh, NC 27614
(919) 201-3158
gorocketstart.com

Roebuck Group

1103 W. Swann Ave.
Tampa, FL 33606
(813) 251-8838
roebuckgroup.com

RoMix Inc.

P.O. Box 1110
Colleyville, TX 76034
(817) 685-0006
romixchem.com

Rosetta Hardscapes

05481 US 31 S
Charlevoix, MI 49720
(844) 367-9763
rosettahardscapes.com

Rotabelt Conveyors

2297 Housels Run Rd.
Milton, PA 17847
(570) 522-8386
rotabelt.com

Royal White Cement

8316 East Fwy.
Houston, TX 77029
(713) 676-0000
royalwhitecement.com

RPX Technologies

3523 N. North Star Dr.
Stillwater, OK 74075
(405) 880-5129
rpxtech.com

Rush Enterprises

555 IH-35 S, Ste. 500
New Braunfels, TX 78130
(800) 302-5200
rushenterprises.com

Ryder Fuel Services

16155 Park Row, Ste. 140
Houston, TX 77084
(281) 647-8900
ryder.com

SAF-Holland

1950 Industrial Blvd.
Muskegon, MI 49442
(231) 773-3271
safholland.com

Safe-T-Plus Steering Control

1230 Six Flags Rd.
Austell, GA 30168
(800) 872-7233
Safe-T-Plus.com

Safety Vision Inc.

6100 W. Sam Houston Pkwy. N
Houston, TX 77041
(800) 880-8855
safetyvision.com

Salit Specialty Rebar

3235 Lockport Rd.
Niagara Falls, NY 14305
(716) 299-1990
stainlessrebar.com

Salt River Materials

8800 E. Chaparral Rd., Ste. 155
Scottsdale, AZ 85250
(480) 850-5757
srmaterials.com

Scale-Tron Inc.

2113C St Regis Blvd.
Dollard-Des Ormeaux, QC H9B 2M9
Canada
(514) 940-0337
scaletron.com

Schlusserbauer NA

2607 Grandview Ave.
Nashville, TN 37211
(616) 742-7274
sbt-na.biz

Schwing America, Inc.

5900 Centerville Rd.
White Bear Lk, MN 55127
(888) SCHWING
schwing.com

Scrommel Reclaimers

P.O. Box 2838
Salina, KS 67402
(800) 595-5293
scrommelreclaimers.com

SCS Global Services

2000 Powell St., Ste. 600
Emeryville, CA 94608
(800) 326-3228
scsglobalservices.com

Seaman Corp.

1000 Venture Blvd.
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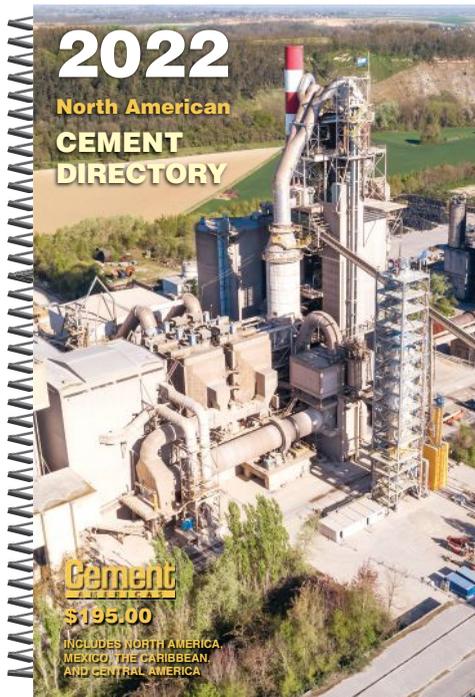
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Transamerica Pyramid at 50

New York luxury real estate developer SHVO recently announced a \$250 million renovation of San Francisco's iconic Transamerica Pyramid Center, its 850-ft. namesake structure one of the world's premier architectural precast concrete installations. Over a 1971-1972 window, Western Art Stone staged production about 10 miles from the site, delivering 3,920 exposed white quartz aggregate elements spanning 360,000 sq. ft. of Transamerica Pyramid enclosure plus lower level interior and exterior areas.

The Pyramid was designed by futurist architect William Pereira and has become emblematic of the San Francisco skyline. The broader Financial District development consists of two additional buildings: Two and Three Transamerica. An art deco structure built in the 1930s for the California Ink Co., the latter is recognized for its use of cast-in-place concrete to support utilitarian industrial requirements. The masterplan from lead architect Foster + Partners, London, seeks to revitalize the Transamerica Pyramid Center and restore Redwood Park, located between the three buildings.

"The Foster team, known for the sensitivity of its juxtapositions of historic and modern structures, conceived a design highly responsive not only to Pereira's spectacular original architecture, but to the nature of downtown San Francisco: not a generic redo of a 1970s tower, but a unique project intended to celebrate a unique modern building," observes architecture critic Paul Goldberger.

"Norman Foster is renowned for his brilliant treatment of historic buildings and I am thrilled to partner with his team on the important task of redeveloping this extraordinary city block and reinforcing the Transamerica Pyramid as one of the greatest buildings in the world," adds SHVO Chairman Michael Shvo, whose firm acquired the Transamerica Pyramid Center in 2020 and plans a 2023 project completion.



The Foster + Partners plan harmonizes the Transamerica Pyramid (above right) while upgrading Redwood Park, located along the east elevation and linking the tower to Two and Three Transamerica (rendering background). The park harbors nearly 50 redwood trees transplanted from the Santa Cruz Valley in 1974 and now rising 100 or more feet.



PYRAMID PHOTOS: SHVO (aerial); Foster + Partners (interior)

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