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Innovate

Purebase's provides its SCM

Blend to UCPRC

UNIVERSITY of CALIFORNIA | PAVEMENT RESEARCH CENTER
Davis • Berkeley

"We are dedicated to evaluating the performance of these materials and helping government and private project owners accelerate their implementation!"
-UCPRC

What is the University of California Pavement Research Center?

The Partnered Pavement Research Center (PPRC) is operated by the California Department of Transportation (Caltrans) and the University of California Pavement Research Center (UCPRC). Its inception was meant to provide timely, high-quality data, analysis, and technology needed to support decision-making by the California Department of Transportation (Caltrans) and other partners.

The vision of UCPRC is ensuring Caltrans and other partners will have continuously improving state-of-the-art pavement technology to maximize the level of service to

all users of California's pavements, while optimizing the results from expenditures on pavement infrastructure and minimizing the environmental impacts.

These goals will be accomplished by strategic planning for current and future challenges and opportunities, and execution of projects from idea to implementation through conceptual studies, research, development, implementation support, and operational support.

**<https://www.ucprc.ucdavis.edu/>*

How is Purebase's SCM Blend involved?

Recently, UCPRC launched the Sustainable Concrete Lab-to-Slab initiative, aimed towards advancing sustainable concrete technology by

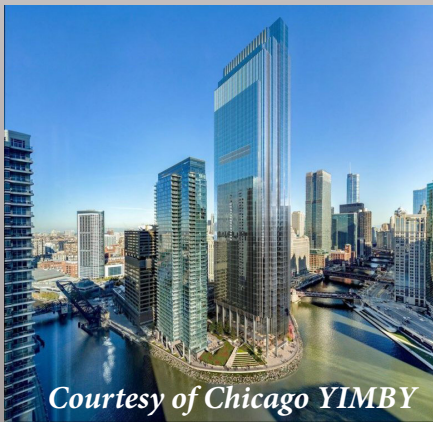
accelerating the implementation of more sustainable binders for structural, pavement, minor, and other concrete applications for real-world applications in pilot projects and mainstream construction.

Purebase was personally invited and has provided its SCM Blend, derived from pozzolanic metakaolin, for the first test track of this initiative. The project focuses on evaluating low-carbon cements and supplementary cementitious materials (SCMs) beyond traditional coal fly ash and slag. "We are dedicated to evaluating the performance of these materials and helping government and private project owners accelerate their implementation."

** www.ucprc.ucdavis.edu/LabToSlab*

NEU case study features first skyscraper to receive EPD score for concrete designs

The Salesforce Tower, located in Chicago, Illinois, is the first high-rise building (standing at 60 stories high and 1.2 million square feet) to mandate a third-party verified Environmental Product Declaration (EPDs) for its multiple concrete designs to ensure certification of its carbon impact. This was achieved by replacing portland cement with a combination of portland-limestone cement (PLC), slag cement, fly ash, and silica fume, resulting in a substantial reduction in carbon emissions compared to industry standards. Read the full article at www.neuconcrete.org



Natural Pozzolan Association Receives funding for EPD upgrade and development for SCMs

On July 16th, the Environmental Protection Agency announced that the Natural Pozzolan Association's EPD Upgrade Project proposal was selected for funding. The \$2.4 million award (if funded) will allow the PCA-led project to focus on the following goals: to significantly boost the number of facility-specific EPDs for cementitious materials, and to upgrade the quality of the information therein. This is a huge step towards the common goal of widely accepted use of SCMs in commercial construction projects. Read the full announcement at www.pozzolan.org



"Our common voice creates an awareness of the need for natural pozzolans to improve sustainability AND durability, lower the carbon footprint in every yard of poured concrete, and enhance the long term strength of our infrastructure." - NPA

In Purebase's July newsletter, we covered what EPDs are and why they are important in decarbonizing industry. Go to www.purebase.com/newsletters to view our newsletters.

What's in the news?

Recent news and happenings in our industry

National Ready Mixed Concrete Association selected by EPA for grant

The National Ready Mixed Concrete Association (NRMCA) is thrilled to announce that the U.S. Environmental Protection Agency (EPA) has selected the association for a \$9.63 million grant aimed at "Reducing Embodied Greenhouse Gas Emissions in Construction Materials and Products."

The grant will fund a five-year project managed by NRMCA and supported by its Build With Strength initiative which includes a team of concrete experts to educate the architectural and engineering communities on designing and specifying low carbon concrete. Read the full article at www.nrmca.org



Editor's Note

Dear Subscriber,

We are pleased to present to you Purebase's ninth issue of our monthly newsletter, "Innovate." For the past several years, Purebase has actively

been developing a unique metakaolin-derived SCM product to incorporate into the cement industry in our continuous efforts of playing a role in future sustainability. Testing of our SCM has been done with favorable results in labs across the nation, including Purdue University, Pennsylvania State University and Clarkson University. You can view these studies and their results on our web-

site under our SCM Division. Now that our blended SCM material is being tested at the UC Pavement Research Center for real world applications in construction, we are looking forward to the possibilities that this will lead to for Purebase. News, events and happenings are occurring at an exponential rate in this industry. Check out some of them above! What would you like to see in our

newsletter? We are open to suggestions and feedback.

Thank you for subscribing to our newsletter, and we look forward to the future of the company, and most importantly, the future of the world.

Please subscribe to our newsletter at www.purebase.com

Sincerely,
Rachel Norris