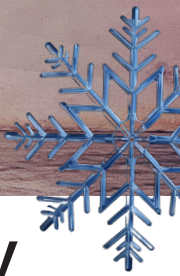




Innovate



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Metakaolin: Multi-faceted for Industry

The many applications and benefits of the pozzolanic material

Metakaolin, the calcined form of pure kaolin clay, is a highly reactive pozzolanic material that significantly enhances the performance metrics of a wide variety of applications within the cement and concrete industry. The versatility of metakaolin makes it a highly important and sought out material in the vast world of construction.

Infrastructure	Architecture	Oil Well Cementing	Mortar & Grout
<p>The use of metakaolin for infrastructure, including bridges, pavement overlays, tunnels, etc. has very important benefits. Its high-strength, fast curing times, and ASR prevention make it suitable for large projects that need to be completed quickly and efficiently.</p>	<p>The light color of metakaolin makes it highly desirable and suitable for architectural concrete that includes precast for decorative sculptures, polished and stamped concrete. It allows for a better finish, color and appearance for concrete projects such as these.</p>	<p>In oil wells, the interface between the cement and the formation of rock in the earth must contain a very high-strength material to prevent potential failure or cracking in the walls. Metakaolin's high bond strength and pozzolanic reactivity will ensure long-term durability.</p>	<p>Mortar is a construction material that binds and joins bricks, blocks and stones; while grout is used to fill gaps and seal joints in tiles. The use of metakaolin enhances the strength in both of these materials and reduces the permeability for improved durability.</p>



Purebase goes polymer!

Purebase sold our high-performing metakaolin to Innovation in Polymers, a California-based building products and chemicals company specializing in polymer-based construction materials, such as high-tech ready-mix concrete.

The customer requested our metakaolin for use in decorative concrete for commercial buildings.

We look forward to future collaboration with Innovation in Polymers and value our like-minded customers, clients and partners! Pictured is Purebase Director of Sales & Corporate Development, David Harvey.

Editor's Note

Dear Subscriber,

We are pleased to present to you Purebase's twelfth issue of our monthly newsletter, "Innovate." First and foremost, we would like to wish all of our readers, colleagues, part-

ners and supporters a Happy Holiday and New Year! May we all celebrate with prosperous vision and gratitude. It is truly exciting to be able to transform industry with modern, sustainable innovations and materials.

We have talked about the importance of metakaolin in concrete and cement, and have spent several years to perfect and test our metaka-



EPD Development for SCM's

Purebase registered for Portland Cement Association's informational webinar: "EPD Technical Assistance for the Cementitious Materials Industry", held on November 19th.

PCA was selected for a 5-year, \$2.4 million grant to support EPD development by cement and SCM manufacturers in the U.S. The webinar focused on how manufacturers can access financial and technical assistance that will be offered through PCA's grant. A significant portion of the grant funds are intended to reimburse manufacturers for the costs associated with developing and verifying facility-specific EPDs for their products.

Topics covered included a general overview of the scope of PCA's grant, eligibility for funding from PCA, process to apply for and receive the funds, and the extent of technical assistance to be offered.¹

PCA's application for \$2.4 million over 5 years was supported by three collaborating organizations: the American Coal Ash Association (ACAA), the Natural Pozzolan Association (NPA), and the Slag Cement Association (SCA).

PCA will soon be accepting applications for financial assistance from eligible manufacturers of cements and SCMs. Up to \$5,000 per facility will be available for those developing facility-specific EPDs for the first time for a given product category (cement, slag cement, or SCMs).²

1. <https://www.cement.org/event/epd-technical-assistance-for-the-cementitious-materials-industry/>

2. <https://www.cement.org/epdassistance/>

olin material. The kaolin clay deposit in Lone, CA is the only one of its vastness and quality in the western United States. There are so many applications and benefits of this high-performing material.

Our industry is starting to see a strong headway in the development of an Environmental Product Declaration category for SCM's. The Portland Cement Association has

a strong workplan in place for assisting and supporting SCM manufacturers.

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 news at www.purebase.com

Sincerely,
Rachel Norris