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# Innovate

## Lab results meet CalTrans requirements, Purebase to provide earth work to UCPRC for Test Slabs to be paved in Spring

The University of Pavement Research Center (UCPRC) in Davis, CA has been testing Purebase's metakaolin-blend supplementary cementitious material (SCM) in their lab for use in their larger upcoming Lab2Slab test track initiative this Spring.

The results indicate that our metakaolin-blend meets CalTrans requirements for SCM, according to ASTM C618 specification, confirming its suitability for real-world concrete applications. This validation demonstrates its potential to enhance durability, strength, and sustainability in infrastructure projects, reinforcing its value for large-scale implementation in transportation and construction projects. Purebase is proud to announce that we will be donating the earthwork for UCPRC's Lab2Slab project involving several western states. We will be onsite to perform the earth work in March in preparation for their test pours in April, where Purebase will also have its own test section in this season's project.

*Photos courtesy of UCPRC.*



### Result Highlights

- A 25% replacement level was selected for concrete mixing.
- Modulus of Rupture results of Purebase SCM met Caltrans 570-psi requirement at 28 days.
- Purebase SCM had higher electrical resistivity indicating potentially reduced risks of chloride penetration and more durability than the control.
- Purebase SCM had a 28-day drying shrinkage of 0.038%, meeting the Caltrans 0.05% limit.
- Purebase flexural strength meets CalTrans 570-psi requirement at 28 days.



# Upcoming Events

## UCPRC Lab2Slab Earth Work

Purebase will be donating earth work in March 2025 to the University of California Pavement Research Center (UCPRC) in preparation for their upcoming Lab2Slab Spring test tracks. This includes preparing the soil and base layers of test sections by earth removal, soil compaction and transportation, and laying down aggregate base.



## UCPRC Lab2Slab Spring Test Track

UCPRC will be executing their Spring Lab2Slab initiative in April 2025 in which Purebase will be providing more Metakaolin material for testing in real-world applications. The spring Lab2Slab initiative test slabs will involve several western states and we look forward to being a part of it.



## Earth Day 2025

April 22nd marks the 55th anniversary of Earth Day, a global environmental movement. This year's theme is "Our Planet, Our Power", emphasizing a collective responsibility to transition to renewable energy sources. We look forward to fostering ideas and ways that Purebase can participate in the initiative.



## Natural Pozzolan Association 2025 Symposium



The 2025 NPA Symposium will be the 3rd such gathering of Natural Pozzolan (NP) producers, end users, marketers, researchers, and industry specialists. The event will include 2 days of presentations—May 19 and 20 at the Ogden Eccles Convention Center (OECC) in Ogden, Utah. Visit [pozzolan.org/events](http://pozzolan.org/events) for more info.

## Editor's Note

Dear Subscriber,

We are pleased to present to you Purebase happenings, as well as news within our industries that we believe

The University of Pavement

Research Center has been continuously testing our material as they push forward in their research for the best startup materials. The lab results continue to show high-performance of the metakaolin.

We are proud to support them in the earthwork preparation for their upcoming concrete test pours. Collaborating on this project not only

strengthens our relationship with industry leaders but also reinforces our commitment to innovation in concrete technology. This synergy allows us to apply our expertise while gaining valuable insights, ensuring that our products continue to meet the highest standards for real-world applications. We look forward to the continued partnership and the

advancements it will bring to the industry.

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.

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Sincerely,  
Rachel Norris