



PORESHIELD™ PRESERVES CRITICAL NEW RAMPS

First Commercial Application for Indiana
Department of Transportation

Contact the Indiana Soybean Alliance for more information.

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PoreShield™: First Commercial Application for Indiana Department of Transportation

Details	
Location:	Interchange of US 24 and I-469
Date:	Applied November 2019
Application Type:	Joint Application – New Pavement
Applicators:	Indiana Department of Transportation and Primco, Inc.



Project Overview



In November 2019, the first commercial application of PoreShield™ took place on a newly constructed ramp interchange outside of Fort Wayne, Indiana. Working with Primco, Inc., the Indiana Department of Transportation built new ramps to create a free-flow interchange at the intersection of US 24 and I-469.

Sixteen days after cast, when the concrete had met maturity threshold requirements, a two-man crew using a rolling sprayer pump treated all of the saw-it pavement joints with PoreShield to preserve these critical areas.

Applicators remarked how easy the process was to apply PoreShield. 24 hours after application, the lane lines were painted and the new interchange was opened to traffic.

“PoreShield helps us in our day-to-day job, because it’s quick and easy to use. We don’t have the cleanup that we would have had with a silicone-based material that we put in the joints.”

– Joe Thomas, Vice President of Operations, Primco, Inc.

From an investment perspective, PoreShield is an extremely cost-effective solution.

- Represented less than .5% of the project’s overall price tag

Total Project Cost	\$11,800,000
PoreShield Cost	\$26,400
% of investment	0.22%

- Eliminates future costs incurred because of repair or replacement, given proof that PoreShield extends the life of concrete up to 10 years

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What Is PoreShield™?

PoreShield is not a penetrating sealer. It is a revolutionary **CONCRETE DURABILITY ENHANCER**.

With one application (liquid or admixture), PoreShield protects concrete from premature deterioration and corrosion for 10+ years. PoreShield is a non-hazardous, high performance and cost-effective technology that protects all densities of new/old, vertical/horizontal concrete.

PoreShield extends the service of concrete five-to-nine times longer by protecting concrete from damage that begins on the inside, caused by water, salt, deicing and freeze/thaw conditions. Because PoreShield can be applied topically, it is often compared to penetrating sealers. However, it performs very differently.

- It is a long-term durability enhancer that is absorbed deep into the pores.
- It does not undergo a chemical reaction or solidify.
- It remains fluid and does not leave any film on the surface.
- It creates a flexible, self-healing, hydrophobic barrier that is both preventative and curative.
 - Defends concrete from moisture ingress
 - Blocks ion transfer into concrete: Ca, Cl, Mg, etc.
 - Arrests Calcium Oxychloride and ASR (Alkali-Silica Reaction) deterioration
- It is a durability enhancer when applied in admixtures as well, showing dramatic reductions in fluid absorption with little negative influence on the set time, strength or shrinkage.

PoreShield is a sustainable and cost-effective investment. It is high performance, non-toxic to human health and the environment, and has earned the USDA BioPreferred® seal due to its renewable soy-derived technology. The low VOC of PoreShield (43.3 g/L) meets national standards for EPA VOC, as well as CARB, SCAQMD, OTC and AIM. The nontoxic profile of PoreShield means no PPE or specialized training is required.