



**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™ PRESERVES CRITICAL NEW RAMPS

### 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™?

A revolutionary solution, PoreShield increases concrete longevity by filling and shielding the network of pores from damage caused by water, salt and deicers. Basically, providing protection against anything that can cause cracking. Both preventive and curative, a PoreShield application migrates to fill in any cracks, offering protection for at least 10 years, whether it's a complex cement application or a do-it-yourself repair.

PoreShield is a highly cost-effective investment, accounting for less than 1% of a project's budget. It's soy-based, low-VOC and environmentally friendly, and doesn't require any PPE or specialized training. Whether the application is on new or old cement, it's quickly applied with long-lasting results.

### Specification For Use

Soy Based Penetrating Sealer for PCC Joints

### Construction Requirements

#### Surface Preparation

The concrete surrounding the joint must be at least 28 days of age prior to surface preparation (or shown to have met strength/maturity thresholds approved by the engineer). Slurry, saw residue or other debris remaining in the sawed joint shall be flushed with water. Water may be applied under pressure in a manner to which no damage to the concrete occurs. Joints shall be cleaned and dried with compressed air followed by a minimum of 24 hours drying time. A heat lance may be used to accelerate drying, as approved by the engineer. The joint shall be completely clean and dry joints prior to application of the sealant.

#### Penetrating Sealer Application

Sealing operations shall not be conducted on a visibly wet surface, when the ambient temperature is below the dew point (dew, frost, fog formation), or when other unsuitable conditions exist, unless approved by the Engineer.

Transverse and longitudinal sawed joints shall be sealed with soy based penetrating sealer in accordance with the sealant manufacturer's recommendations. Sealant shall not be applied if the air or concrete temperature is below the dew point or freezing point (unless measures are taken to ensure dry concrete and approved by the engineer). When applying the sealant adjacent to asphalt, care shall be taken to avoid contact with the asphalt. If a spill occurs on asphalt, minimize exposure and allow any lightly softened asphalt a short time to re-harden.

### Construction Requirements

The material shall be applied using a low-pressure sprayer. Sealant shall be applied in two passes. On the first pass, enough sealant shall be applied so as to create a small reservoir at the base of the joint that can be absorbed into that critical area over the following hours. A second pass shall be applied so as to treat the surrounding pavement surface within 12 inches of either side of the joint. After applications of the sealant are complete, the sealant shall be allowed a minimum of 3 hours of drying time, and or no tracking, allowing the sealant to be absorbed into the concrete prior to opening to unrestricted traffic. Areas including crossing county roads, public and private drives may be used after 2 hours of drying time. This would include slow

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moving safety vehicles and support vehicles in treated areas. If rainfall occurs within 6 hours of application, the application shall be repeated in affected after the rainfall has ended and joints shall be dried with compressed air prior to re-application of the final coat.

Treated areas shall not be opened to traffic for a minimum of 4 hours and or where no tracking occurs.

PoreShield is funded with Indiana soybean checkoff dollars.