

# PCR - CONCRETE GUARD



One step high-solids water-emulsified, resin-based concrete curing & weather proofing compound

## DESCRIPTION

PCR - CONCRETE GUARD is a high-solids water-based, dissipating resin-based concrete curing compound. When properly applied, PCR - CONCRETE GUARD forms a continuous membrane that controls curing for strong and durable concrete. PCR - CONCRETE GUARD is a water-based blend of pure silane and pure siloxane designed to cure and seal fresh concrete.

PCR - CONCRETE GUARD meets maximum VOC content limits of 350 g/L for Concrete Curing Compounds as required by the U.S. EPA Architectural Coatings Rule. PCR - CONCRETE GUARD is a dissipating resin cure ideal for application on exterior, horizontal surfaces such as highways, airports, street and curb paving applications when proper curing is required. As the resin membrane dissipates and wears away, the concrete remains protected and highly resistant to moisture and damaging salts.

## FEATURES/BENEFITS

- Silane/Siloxane penetrates the concrete and provides protection against spalling and deterioration of concrete caused by de-icing salt
- Reduces shrinkage; retains moisture to reduce "plastic shrinkage cracks"
- Improves durability; proper curing will increase the long life of concrete.
- Enhances performance; increases compressive strength and wear resistance
- Easy to spray
- VOC Compliant < 350g/l
- Provides positive curing for exterior concrete where wax-based cures are unacceptable

## SPECIFICATIONS/COMPLIANCE

Meets ASTM C309, Type I, Class A & B  
AASHTO M148, Type I, Class A & B  
F.A.A. Item P-610-2.11 (e) for airport paving  
Formulated specifically for federal, state, county, and municipal highway and airport paving projects

## STORAGE/SHELF LIFE

Shelf life of PCR - CONCRETE GUARD in the original tightly closed containers is one year from the date of manufacture. Do not allow the accumulation of water, dirt, or other contaminants. Avoid prolonged exposure to heat in excess of 100°F.

## APPLICATION

**Coverage:** Ready-to-use. Do not dilute. Apply with a manual sprayer, power sprayer or paving train. Avoid puddles. Apply in accordance with recommended coverage rates.

Curing: 200 sq ft / gal

**New Concrete:** PCR - CONCRETE GUARD should be applied as soon as the surface water has disappeared and the concrete surface will not be marred by the walking applicator. At this point, apply in a uniform coat.

## CLEAN UP

Tools and equipment should be flushed and cleaned with water immediately after use. Use SpecChem Solvent 100 or a cleaning solvent for sprayers to remove cured or residual material

## PACKAGING

275 gallon totes  
55 gallon drums  
5 gallon pails

## TYPICAL TEST DATA

Moisture Loss	
Applied at 200 ft <sup>2</sup> /gal	0.345 kg/m <sup>2</sup>
Test Requirement	0.55 kg/m <sup>2</sup> max

Meets and surpasses Fed. Spec SS-W-110b (GSA-FSS) Performance:

Weight	8.8 lbs per gallon
Carrier	water

**SPEC**CHEM  
Solution to Service  
1511 Baltimore Ave, Suite 600  
Kansas City, MO 64108  
www.specchemllc.com 866.791.8700

# PCR - CONCRETE GUARD

One step high-solids water-emulsified, resin-based concrete curing & weather proofing compound

## TECHNICAL DATA *cont'd*

Composition	Alkylalkoxysilane in water
VOC Content (EPA Method 24)	Less Than 250 grams/liter
Flash Point (ASTM D3278-82)	Greater than 200°
Average Depth Penetration (AASHTO T259 and T260)	Less than 0.15" depending upon substrate
Water Absorption Test (ASTM C642-82) (OK. DOT. STD.)	0.52%/48 hours
Scaling Resistance Test (ASTM 672-84) (Non-air-entrained Concrete)	0 rating "No Scaling"

NCHRP 244

Series II-Cube Test (200 sq.ft./gallon application)

Water weight gain	85% reduction-exceed criteria
Absorbed Chloride	85% reduction-exceed criteria
NCHRP244 Series IV Southern Climate- Exposure Test Absorbed Chloride	86% reduction-exceed criteria
Alberta Transportation and Utility Procedure (ATST2a) Water Repellant performance	86.2%
Resistance of chloride ion penetration (AASHTO T259 and T260)	Less than 0.26lbs/yd <sup>3</sup> (Criteria of 1.5 at 1/2" level) 0.00lbs/yd <sup>3</sup> (Criteria of 0.75 at 1" level)
Moisture vapor transmission rate (OHD-L-35)	101.5%
Drying time under normal Conditions	4hrs/ 75°F

## LIMITATIONS/PRECAUTIONS

Do not allow to freeze. If freezing takes place, consult SpecChem. Do not mix or contaminate with solvent, diesel fuel or other thinning agents.

Although a dissipating resin, additional cleaning/preparation may be required if paints, topcoats or adhesives are to be applied.

Do not over agitate with compressed air or recirculating pump.

Keep out of reach of children. Do not take internally. Do not breathe vapors. Avoid prolonged contact with skin. If swallowed, do not induce vomiting - call physician. Wear rubber gloves, goggles, and protective clothing.

Do not use on concrete that is to accept a secondary topping without first consulting the manufacturer.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature.

Clean and thoroughly flush all equipment with warm water.

**DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!**

## WARRANTY

### NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

### WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

### INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

**SPEC**CHEM  
**Solution to Service**  
 1511 Baltimore Ave, Suite 600  
 Kansas City, MO 64108  
[www.specchemllc.com](http://www.specchemllc.com) 866.791.8700