

# PRODUCT DATA

## CURE & SEAL 309

Economical solvent-based non-yellowing, copolymer acrylic concrete curing, sealing, and dustproofing compound.

### VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE

	USEPA	OTC I	OTC II	AZ-MCAQMD	CARB - 2000	CARB - 2007	CARB-20/SCAQMD	CANADA
Cure & Seal 309 - 350	■	■	□	■	□	□	□	■
Cure & Seal 309 - 350 (Matte Finish)	■	■	□	■	□	□	□	■

## HOW IT WORKS

Applied to freshly placed and finished concrete surfaces, CURE & SEAL 309 creates a vapor seal that retains moisture for proper curing. Also provides early rainfall protection and resistance to abrasion and staining.

## APPLICATIONS

- ◆ Use as a cure on freshly placed concrete.
- ◆ Use as a sealer/dustproof on both previously cured and new rough- or smooth-finished concrete surfaces.

## ADVANTAGES

- ◆ Application-friendly formulation allows more working time to roll or spread uniformly across the surface.
- ◆ Complies with ASTM C 309, Type 1, Class A & B and, AASHTO M 148, Type 1, Class B. Compliant with USDA requirements for incidental food contact.
- ◆ Remains sprayable in freezing temperatures.
- ◆ Ensures sufficient retention of mix water for at least 72 hours, allowing concrete to develop maximum strength, density, and surface hardness.
- ◆ Prevents surface crazing and cracking.
- ◆ Dries to a dust- and tack-proof state in 30 minutes, quickly providing protection from rainfall, scuffing, and foot traffic.
- ◆ Reduces final cleanup costs by protecting concrete from oil, grease, and chemical spills and from mortar splashing adhesion.
- ◆ Second applications reduce maintenance costs and beautify concrete appearance with a lustrous sheen.
- ◆ Protects subsequent applications of carpeting or tile from efflorescence, attack by alkaline salts, and dusting.
- ◆ Compatible with most concrete paints and adhesives used for resilient tile floor coverings.
- ◆ Can be applied as an anti-spalling compound providing resistance to destructive chemical deicing salts.
- ◆ Treated surfaces are readily recoatable when necessary without sanding or scarification.

## ⚠ PRECAUTIONS ⚠

- ◆ Due to its low flash point, CURE & SEAL 309 is only recommended for exterior applications and is NOT recommended for interior or enclosed applications.
- ◆ Do not use on concrete slabs with inadequately drained subgrade, treated surfaces to be covered with concrete or plaster, and/or surfaces subject to hydrostatic water pressures.
- ◆ Coating delamination (blistering) may occur if applied prior to allowing all surface bleed water to fully evaporate. A moisture saturated subgrade or a moisture barrier placed beneath the slab to be cured and/or sealed may increase the risk of coating delamination.
- ◆ Do not use with other floor sealers, treatments, bondbreakers, or adhesives without prior site test to determine compatibility and adhesion.
- ◆ Any variations in concrete surface density may be highlighted by surface mottling after product application. Make test application to determine performance and appearance acceptability.
- ◆ Do not use around sparks or open flame. Provide adequate ventilation.
- ◆ Treated surfaces may become slippery when wet with water or other liquids.
- ◆ Exterior sealed surfaces will slowly oxidize in time, eventually necessitating reapplication.
- ◆ Not recommended for application to frozen concrete surfaces or when ambient temperatures are below 40° F (4° C) and/or are expected to drop below 40° F (4° C) within 12 hours following application.
- ◆ Due to the more restrictive air quality regulations written by certain VOC management districts regulating the use of architectural coatings, this product may be prohibited from use as a concrete sealer, but still permissible for use as a concrete curing compound.

## USE INSTRUCTIONS

- ◆ Request current product literature, labels, and safety data sheets from manufacturer and read thoroughly before product use.

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- ◆ Site environmental conditions, substrate conditions, and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ If necessary, remove existing sealers with Nox-Crete's DECO-STRIP, DECO-PEEL, or DECO-PEEL CPC.
- ◆ Low-pressure spray application provides the best results, however, product can be brushed or rolled with 3/8 inch (10 mm) nap roller. Spray apparatus should be equipped with an 8004 LP or 8005 LP spray tip and chemical-resistant hoses and gaskets. Do not thin or dilute.
- ◆ Application rates vary with substrate conditions. Approximate rate for curing is 250 sf / gal. (6.1 sm / L) per application. Approximate rate for sealing is 300 sf / gal. (7.4 sm / L) per application.
- ◆ Application equipment should be cleaned with Nox-Crete's SOLVENT B or other suitable solvent. (Read SDS for cleaning solvent before use.)

#### For Freshly Placed Concrete

- ◆ Apply immediately following final finishing and after disappearance of surface water sheen.
- ◆ Apply to the point of saturation and appearance of continuous surface film.
- ◆ Concrete should be damp but not wet. Avoid over-application, puddles, or runs.
- ◆ For maximum sealing and dustproofing performance, apply a second coat after concrete has been allowed to thoroughly dry.

#### Previously Cured Concrete

- ◆ Clean and remove all dirt, oil, grease, paint, or foreign cure residue from the surface with a trisodium phosphate (TSP) solution.
- ◆ Rinse surface thoroughly with clean water and squeegee off excess.
- ◆ Allow surface to dry 24 - 48 hours prior to first application.
- ◆ Apply first coat to the point of saturation and appearance of continuous surface film.
- ◆ If a second coat is necessary, apply 24 hours from first application.

## MAINTENANCE

- ◆ Wipe up all chemical, solvent, or petroleum spills as soon as possible.
- ◆ Remove dirt and debris by sweeping.
- ◆ Wash and buff periodically to help maintain surface luster.
- ◆ Clean damaged coating areas promptly and recoat.

## TECHNICAL DATA

	C&S 309 - 350	C&S 309 - 350 (Matte Finish)
Percent Solids	15%	15%
Clarity	Clear	Hazy
Odor	Sweet	Sweet
VOC	<350 g / L	<350 g / L
VOC Classification	Concrete Curing Compounds (Exempt Solvents)	Concrete Curing Compounds (Exempt Solvents)
Bulk Density	8.7 lbs. / gal. (1038 g / L)	8.7 lbs. / gal. (1048 g / L)
Freeze Point	Below -35.6° F (2° C)	Below -35.6° F (2° C)
Flash Point	64.4° F (18° C)	64.4° F (18° C)
Dry (Dust/Tack Free)	30 minutes	30 minutes
Dry (Light Traffic)	12 hours	12 hours
Dry (Normal Traffic)	24 hours	24 hours

Complies with ASTM C 309, Type 1, Class A & B; and AASHTO M-148, Type 1, Class B. Compliant with USDA requirements for incidental food contact.

## PACKAGING

Product is packaged in 1 gal (3.8 L) jugs, 5 gal (19 L) pails, 20 liter pails, 55 gal (208 L) drums and 200 liter drums.

## SHELF LIFE

Shelf life is 2 years. Use before the "USE BY" date stated on product packaging.

## HANDLING/STORAGE

Store in a dry location within a temperature range between 40° F (4° C) and 100° F (38° C).

## AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, Nox-Crete, Inc. maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

## LIMITED WARRANTY

### NOTICE-READ CAREFULLY

#### CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

#### WARRANTY LIMITATION

NOX-CRETE 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, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

NOX-CRETE makes NO OTHER WARRANTY, either express or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall NOX-CRETE be liable for special, indirect or consequential damages resulting from the use or handling of the product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

#### INHERENT RISKS

NOX-CRETE MAKES NO WARRANTY WITH RESPECT TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.

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