



Since 1967

Technical Data Sheet

CURE AND SEAL™ 250

Water Based Acrylic Curing Compound Concrete Sealer and Dustproofer

PART 1: GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

CURE and SEAL™ is a water-based acrylic curing agent, dustproofer and sealer for concrete surfaces. The material cures, seals, hardens and dustproofs freshly placed concrete. It is specially formulated to meet the moisture retention requirements of ASTM C-309, ASTM C- 1315, AASHTO M-148, Navdock 13YF, and CRD C-300.

Material is the recommended compound for curing metallic dry shake hardener concrete slabs. CURE and SEAL™ is ready to use and can be safely applied in interior areas or at jobsites with restrictions on solvent odor, flash point or VOC rules. Product does not cause efflorescence in concrete. Cure and Seal™ creates a waterproof acrylic membrane seal over the fresh concrete surface.

1.2 ADVANTAGES:

- Non-toxic
- Non-carcinogenic
- Non-staining
- Odorless.
- Increases concrete abrasion resistance
- Provides protection from stains.

1.3 LIMITATIONS:

Avoid freezing material since product could separate. If stored for more than 12 months stir vigorously before use to assure even application. Protect concrete from rainfall if material has not fully dried. Cure and Seal™ does not interfere with the adhesion of most paints, flooring adhesives, sealers and waxes based on acrylic polymers. Plaster, cement coatings, epoxy coatings and concrete overlays will NOT BOND PROPERLY to a Cure and Seal™ treated concrete surface.

CURE and SEAL™ film must be completely removed with mechanical surface preparation to open concrete surface porosity for adequate bonding. This is recommended surface preparation for cementitious finishes and epoxy coatings applied on CURE and SEAL™ treated concrete to assure maximum adhesion and durability.

PART 2: TECHNICAL DATA

2.1 PRODUCT CHARACTERISTICS:

Density	8.4 ± 0.1 lbs/gallon
Viscosity	50 ± 10 cps
Percent Solids	25 ± 1.0 % w
Flash Point	Non Flammable
Odor	None
Color	Translucent Milky Liquid
Dry Opacity	Clear Film
Polymer Type	100% Acrylic Emulsion
Cure Type	Membrane ASTM C309
Storage Life	12 Months
VOC	50 g/liter
Product Yield	200 – 400 Sq Ft/Gallon
Drying Time Recommendation	Tack Free: 30-50 minutes. Light Traffic: 3 to 4 hours. Normal Traffic: 24 hours.
	Maximum Hardness: 7 days
Chemical Resistance Guidelines for	10% Acids – Excellent. Vegetable Oil – Excellent. Mineral Oil – Excellent.
	Gasoline – Poor. Aliphatic Solvent – Good.
Moisture Retention	0.40 kg/m² or 0.40 grs/cm²
Test ASTM C 309	
Abrasion Resistance Taber	Improves 4-5 times abrasion resistance vs. untreated.

2.2 Applicable Standards:

Exceeds or meets ASTM C-309 Type 1(1-D), Class B, AASTHO M-148 Type 1, ASTM C-1315 Type1-A, NAVDOCK 13 YF and CRD C-300 standards for clear curing compounds.

Meets ASTM-1315 Type 1 Class A, Non-Yellowing Concrete Curing Standard.

Meets the Resilient Tile Institute Specifications for floor tile adhesion.

Complies with ASTM C-309 Type 1-D, Class B when Fugitive Dye option is specified.

PART 3: INSTRUCTIONS

All surfaces should be clean and free from standing water. Remove all dirt, waxes, poorly bonded coatings and any other foreign matter before using as a sealer. Apply directly to damp fresh concrete when used as a curing compound. Do not dilute, thin or alter product when used as an ASTM C-309 curing compound. As a sealer Cure and Seal™ is applied normally in two coats to hardened concrete. To spray Cure and Seal™ use a plastic lowpressure sprayer with an 8005-LP tip. Control application to cover 200-300 square feet per gallon. Maintain sufficient pump pressure throughout application. Assure uniform surface coverage and avoid puddling in low areas. If nozzle clogs material will come out in spits and sputters ruining work. Clean nozzle immediately with soap and hot water or lacquer thinner. To prevent nozzle clogging immerse gun tip in water. Clean the sprayer immediately after use with soap and water.

3.1 Concrete Curing Applications:

Apply Cure and Seal™ following final finishing and after disappearance of surface water sheen in a continuous thin film uniformly over the damp concrete horizontal surface. On vertical concrete apply immediately following from removal. Avoid puddles in low areas and assure that no runs are visible on vertical surfaces. Apply with sprayer, roller, brush, or lambs wool applicator. Excess brushing or rolling can cause foaming, pinholes and poor appearance. Estimated product yield is 150- 200 square feet per gallon for concrete curing. To assure ASTM C-309 compliance do not exceed the 200 square feet per gallon application rate.

3.2 Concrete Sealing Applications:

Apply Cure and Seal™ with sprayer, roller, brush, or lambs wool applicator at a rate between 200-400 square feet per gallon on clean hardened concrete. For sealing applications on new concrete the second or sealing coat is applied over the Cure and Seal™ cured concrete surface when job is completed to avoid damaging the sealed surface. For old concrete sealing dilute first coat with 50% water to assure better substrate penetration.

CAUTION Slippage Hazard: Placing Cure and Seal™ on walking surfaces like patios and pool decks could affect its their skid resistance when wet or moist with water. Cure and Seal™ will give concrete a wet look and generally a deeper color. Material can accentuate color variations and finishing or trowel marks.

3.3 Limitations:

Cure and Seal™ is not recommended for use in concrete floors with heavy for lift traffic. Excessive dirt pickup and wear patterns will develop on Cure and Seal™ treated industrial floors. If the concrete sealer acrylic finish is protected with an industrial wax the sealed floors can take moderate lift and pedestrian traffic. Periodic waxing will be required depending on floor use.

PART 4: PRECAUTIONS

Avoid breathing product vapors or mist. Use only with adequate ventilation. Can cause eye, nose and throat irritation. Could be harmful if swallowed. **KEEP OUT OF REACH OF CHILDREN.** Carefully read and follow all cautions and warnings on product label and SDS. Cure and Seal™ meets or is exempt of all air quality, VOC, OSHA and hazardous substance regulations. Product is virtually non-irritating, contains NO hydrocarbons, petroleum fumes or odors. Containers are a non-hazardous solid waste that can be disposed in non-regulated landfills or recycled for plastic recovery. Cure and Seal™ is NON FLAMMABLE and is not subjected to OSHA 1910.106 storage rules

CAUTION: Keep product and opened buckets away from children. Children can fall in 5-Gallon buckets and drown. USE with adequate ventilation. Wear work pants, long sleeve shirt and rubber gloves to prevent skin contact. Avoid contact with eyes. Wash with soap and water after handling material. Read SDS before use.

5. PACKAGING AND AVAILABILITY

Product is available in 5-gallon plastic pails and 55 gallons steel drums at hardware stores and concrete materials distributors. Contact CONSPRO CORPORATION for information on resellers and salespeople in your area. E-mail contact address is: Info@conspro.com .

6. STORAGE RECOMMENDATIONS

Cure and Seal™ does not stratify while in normal storage conditions. Store at ambient temperatures between 40°F and 90°F outside or inside, in a vertical position. Water will not contaminate drum contents. Keep containers tightly capped and sealed. Product has a shelf life of 1 year from date of manufacture if properly stored in original factory sealed containers.

7. DISCLAIMER

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