



CURE & SEAL

Solution-acrylic resin compound to cure, seal, and harden concrete

October 2017 • Version 1.1

1. PRODUCT NAME

Cure & Seal

2. MANUFACTURER

Cure & Seal is manufactured for Cemstone Products Company
2025 Centre Pointe Blvd., Suite 300
Mendota Heights, MN 55120 USA

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Internet: cemstone.com

3. PRODUCT DESCRIPTION

Cure & Seal is a clear, non-yellowing, fast drying acrylic compound. No fillers, oils, waxes or saponifiable resins are contained in the mixture. It is used for curing, sealing, and hardening of freshly-placed and/or existing concrete, terrazzo, brick, stone, architectural concrete, and other cementitious materials. Cure & Seal may be used for exterior or interior applications when properly ventilated. On new concrete it forms a membrane film which seals and retains hydration water to provide maximum hardness of the substrate, resistance to abrasion, damage caused by salt, oil, grease, mild acids, alkali, and stains from soot, smog, fumes, and gases. Job site clean-up is easier as construction debris do not adhere. It is compatible with many resilient tile and carpet adhesives and can improve adhesion efficiency, add longer life to the floor covering, requires less repair work, and often recommended for concrete surfaces that are to be carpeted. Cure & Seal will also benefit existing concrete by penetrating into the slab, binding together the small dusting particles, while filling the voids to produce a hard, dust-free, brighter surface. When used on terrazzo, brick, stone, and architectural concrete it brings out the highlights, enriching and enhancing the natural colors found in the material.

WHEN/WHERE TO USE

- Cure and seal surfaces
- Interior or exterior applications
- Concrete or masonry applications
- New or existing applications
- Terrazzo, brick, stone, pavers, and other cementitious materials
- Commercial and residential projects

ADVANTAGES

- Enhances colors and darkens the appearance of concrete, brick, stone, terrazzo, and exposed aggregate
- Cures in 1-2 hours
- Ready to use, do not dilute
- Goes on clear, dries clear
- Chemical resistant
- Meets Federal EPA's VOC requirements
- Easy to apply with sprayer or roller

Warning

Avoid contact with eyes and skin. If contact with eyes occurs, flood eyes repeatedly with clean water for 15 minutes and see a physician immediately. Do not rub eyes. Wash hands thoroughly after handling or before eating with warm, soapy water. Do not take internally. KEEP OUT OF REACH OF CHILDREN.

4. TECHNICAL DATA

TECHNICAL DATA	
Composition and Materials	A clear acrylic copolymer blended with fast-drying aromatic hydrocarbon. No fillers are used and there are no oils, waxes or saponifiable resins. Cemstone products are manufactured with only the finest quality raw materials available and close quality-control is practiced.
Percent Solids	25%
Flash Point	>100°F (37°C)
Moisture Efficiency:	Meets ASTM C-1315 (Max. allowed 0.40 kg/m ²)
Typical Drying Time @ 70°F	1 hour (touch) 2 hours (traffic)
VOC Content	< 700 g/l
A.I.M. Category	Curing and Sealing Compound Maximum VOC 700 g/l
Applicable Standards	ASTM C-1315, Type 1, Class A, B, & C ASTM C-309, Type 1, Class A, B and Type 1D with a red dye added. Fed. TT-C-800A, Type 1, Class 1 AASHTO Des. M-148, Type 1, Clear USDA Authorization for use in meat, poultry, and food processing plants. Resilient Tile Institute approval for compatibility with most resilient tile, carpet adhesives, and paints

5. INSTALLATION

PREPARATION

Read all directions before starting work. Remove all loose or unsound materials prior to application. Thoroughly clean surface of dirt, dust, oil, grease or other contaminants before using. Do not apply when rain is expected within 4-6 hours of application. DO NOT STORE NEAR HEAT OR OPEN FLAME. Keep original containers tightly sealed when not in use, and use only in well-ventilated areas. Read and understand SDS pages for safety precautions prior to use.

MIXING

Cure & Seal is ready for use, do not dilute. Product may be gently stirred, but do not entrain air.

APPLICATION

NOTE: Cure & Seal will darken the appearance of new or existing concrete, especially if it is applied too heavily. A small mock-up in an inconspicuous area is often done to test compatibility with the substrate prior to full application. When applying to existing areas surfaces must be clean and dry.

Apply when both surface and air temperatures are above 40°F (4.4°C) and the Cure & Seal is above 50°F (10°C). For best results, apply uniformly at the specified rate of coverage with long-nap roller or an airless sprayer equipped with PVC, viton, or other compatible fittings and hoses as solvents can damage rubber.

New Concrete (Curing)

- Apply after troweling is complete and surface is dry.

Existing Concrete (Sealing)

- Apply only to dry surfaces for optimal performance.
- Avoid heavy accumulation.
- A second coat may be applied on very porous surfaces with rapid absorption.
- Allow the product to become tack-free between coats.

CLEAN UP

Use mineral spirits or solvent-based cleaners, such as xylene on tools and equipment. For sprayers, pump the solvent through the spray equipment to remove any residue to prevent clogs in the hose and wand. For skin contact, wash thoroughly with soap and warm water.



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COVERAGE

Approximate Coverage @ 70°F (21°C)	Sq. Ft./ gal.	M ² / L
Curing	300-500	7.3-12.3
Dustproof / Seal	300-500	7.3-12.3
Second Coat	400-800	9.8-19.6
Renovation Dustproof / Seal	300-400	7.3-9.8

NOTE: Coverage is per coating and may vary due to porosity, wind, temperatures, and condition of surfaces.

NOTES

- Apply when both surface and air temperatures above 40°F (4.4°C).
- Not for use on asphalt or surfaces that are subject to immersion or constant liquid contact.
- Not for use where spillage of solvents, fuels, or brake, transmission, or hydraulic fluids, etc. are expected.
- Sprayers must be equipped with PVC, viton, or other compatible hoses, washers and gaskets; rubber or other materials will disintegrate from the solvent.
- Some fumes may be present during application. Use best practices when applying on interiors for proper ventilation. In it's cured state, Cure & Seal is non-toxic.
- Concrete mixes containing calcium chloride will remain dark longer when sealed. Some extenders and additives, such as fly ash for example, can create inconsistent porosity and coverage ratios will need to be adjusted to compensate for these variations.
- Popout or scaling issues can occur with any concrete installation, but are more likely in extreme hot weather conditions (above 90°F / 32°C), and when finished by heavy steel troweling. In certain regional areas a reaction between the silica in the shale particles and the sodium and potassium alkali in the Portland cement can increase the occurrence. Where this type of shale is present, and extremely hot weather conditions prevail, it is recommended that liquid membrane curing compounds should not be used until the concrete has been completely cured by water ponding, continuous water spray mist, or wet burlap covering for a period of three days. A seal coat can then be applied for dustproofing and protection (when concrete is completely dry).

- When using a liquid release, you must check with the manufacturer to insure proper washing has taken place before using Cure & Seal. If the liquid release has an abundance of oil, it will deter adhesion of the sealer. When using a powder release, care needs to be taken to insure that the proper amount of release is washed off the surface, or delaminating of the sealer may occur. This happens more often with lighter colors.
- SAFETY: Eliminate all sources of ignition. In case of fire use foam, CO₂, dry chemical. Do not use water spray. If spilled, contain spilled material and remove with inert absorbent. Dispose of the contaminated absorbent, container, and any unused contents in accordance with local, state, and federal regulations.
- Keep containers tightly sealed when not in use.
- Do not dilute with water or solvents.
- For best use, the recommended shelf life is 12 months. If shelf life is beyond 12 months, please contact your distributor.

6. AVAILABLE SIZES

- 1 gal. bottle (3.78 L)
- 5 gal. pail (18.93 L)
- 55 gal. drum (208 L)

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. MAINTENANCE

Minimal maintenance is required other than normal sweeping, dusting, or mopping. If wear patterns do occur, or if spillage removes the coating, reapply to the affected area.

9. TECHNICAL SERVICES

The Cemstone office offers assistance with specifications, performance test data and field services.

10. FILING SYSTEM

Division 9

CEMSTONE DISCLAIMER:

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question to the suitability of a particular product, a small test patch is recommended. See also WARRANTY (Section 7).

KEEP AWAY FROM HEAT OR OPEN FLAME

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

FOR PROFESSIONAL USE ONLY