



# CURE & SEAL PLUS ASR Sand Pop-Out MINIMIZER

Waterborne, modified acrylic curing, sealing, and dustproofing compound

May 2017 • Version 1.0

## 1. PRODUCT NAME

Cure & Seal Plus - ASR Sand Pop-Out Minimizer

## 2. MANUFACTURER

Cure & Seal Plus - ASR Sand Pop-Out Minimizer is manufactured for Cemstone Products Company  
2025 Centre Pointe Blvd., Suite 300  
Mendota Heights, MN 55120 USA

Phone: 1-800-CEMSTONE

Local: 651-688-9292

Internet: cemstone.com

## 3. PRODUCT DESCRIPTION

Cure & Seal Plus - ASR Sand Pop-Out Minimizer is a clear, waterborne, acrylic polymer membrane-forming compound used for curing, sealing, and dustproofing freshly-placed and finished concrete and for sealing and dustproofing existing concrete surfaces. When used as a curing compound immediately after final finishing, this unique product significantly reduces and minimizes Alkali Silica Reaction (ASR) sand pop-outs. Solvent-free for reduced odor, it can be used for both exterior and interior applications. Cure & Seal Plus - ASR Sand Pop-Out Minimizer provides high curing efficiency for full strength and hardness to the concrete as well as resistance to traffic abrasion.

### WHEN/WHERE TO USE

- Cure and seal surfaces
- Interior or exterior applications
- Horizontal and vertical surfaces
- Odor-sensitive locations
- New or existing applications
- Concrete
- Commercial and residential applications

### ADVANTAGES

- Ensures high curing efficiency allowing concrete to attain its full-strength potential
- Reduces surface absorption and dusting of concrete for easier cleaning and maintenance
- Retains moisture in concrete to minimize shrinkage cracking
- Minimizes ASR sand pop-outs
- Low VOC, water-based mix
- Tack-free in < 4 hours
- Ready to use, no diluting
- Chemical resistant

- Dries to clear, semi-gloss appearance
- Compatible with most tile and carpet adhesives

### 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	Formulated of fine quality, hard but pliable acrylic polymers in an aqueous system. 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.
Moisture Retention	0.36 kg/m <sup>2</sup> applied at 300 sq. ft. /gal. per ASTM C-156
Typical Drying Time @ 70°F	< 4 hours ASTM C-1315
VOC Content	< 150 g/l
Acid and Alkali Resistance	At 1 and 16 hours: No effect observed per ASTM D1308
UV Light Resistance	Membrane lighter than Gardner color 3 per ASTM G53
A.I.M. Category	Concrete Curing Compound Maximum VOC 350 g/l
Applicable Standards	ASTM C-1315, Type 1, Class B. ASTM C-309, Type 1, Class A or B. Corps of Engineers CRD-C304, Type 1, Class A or B. AASHTO M-148 Recommended for use on Class 1, 2, 3, and 4 concrete floors as classified in Table 2.1 ACI 302.1R

## 5. INSTALLATION

### PREPARATION

Freshly placed concrete must be properly finished. The surface is application ready when it is damp, but not wet, and can withstand foot traffic without marring.

Existing surfaces should be sound, clean, and dry. Thoroughly clean dirt, dust, oil, grease, or other contaminants before using Cure & Seal Plus - ASR Sand Pop-Out Minimizer. Always check compatibility with the substrate manufacturer prior to placement. Do not apply when rain is expected within 4-6 hours of application. **DO NOT ALLOW PRODUCT TO FREEZE.** Do not dilute. Thoroughly stir in original container to blend prior to use, but do not entrap air.

### APPLICATION

- Apply when air and surface temperatures are between 40°F-120°F (4°C-49°C).
- Use low-pressure (20-30 lbs.) sprayer to apply uniformly at the specified rate of coverage. Avoid heavy accumulation or pooling. A lamb's wool applicator or short-nap roller can also be used.
- Do not allow exposure to rainfall, water, or traffic until fully dried or surface may whiten.
- Light foot traffic is allowed approximately 4 hours after application. Restrict from normal traffic for 12 hours. Maximum hardness time is 7 days. Material will take longer to dry at either high humidity or cooler temperatures.

### New Concrete (CURING):

Apply after final finishing is complete and surface is dry, as soon as possible after the surface water has dissipated and concrete can withstand weight. Apply a continuous, even, uniform film at the specified rate of coverage. For curing, one application may be sufficient providing the coverage rate is met. An additional coat may be required in hot weather conditions as defined by ACI 305. Sealing and dustproofing require two applications. For commercial construction, apply the second application when all trades have completed their work and the site is ready for occupancy.

*NOTE: Do not over-apply, soak, or allow pooling on concrete surfaces with Cure & Seal Plus - ASR Sand Pop-Out Minimizer. Over-application can result in alligating and/or mud cracking. This is where a film forms on the substrate before the concrete properly dries which may cause opacity or a cloudy film to develop. A small mock-up in an inconspicuous area is often done to test compatibility with the substrate prior to full application.*



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## Existing Concrete (SEALING):

Apply to a clean, dry surface for optimal performance. Apply uniformly, avoiding heavy accumulations. A second application is required when sealing or dustproofing. Apply the second application when all trades have completed their work and the site is ready for occupancy.

## CLEAN UP

Use warm water and soap before product dries. After product dries, an organic solvent, such as xylene, may be used.

Approximate Coverage @ 70°F (21°C)	Sq. Ft./ gal.	M <sup>2</sup> / L
Curing only: Broomed or Troweled	200-300	4.9-7.4
Second Coat: Dustproofing and Sealing	400-600	9.8-14.7
Recoating: Dustproofing and Sealing	200-300	4.9-7.4

## COVERAGE

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

## NOTES

- Do not apply when surface and air temperatures are below 40°F (4°C).
- Product may settle, and must be stirred thoroughly before and during application but do not entrap air.
- Not recommended for use in colored dry-shake applications.
- Mottling or discoloration may occur if applied to integrally colored concrete.
- Dries to clear, semi-gloss finish that may highlight features and imperfections of the concrete surface.
- Not recommended as a release agent.
- Do not apply to surfaces of joints to be caulked with sealants. Mask or tape joints to avoid sealant adhesion issues.
- CPC Cure & Seal Plus - ASR Sand Pop-Out Minim�izer is compatible with most carpet, vinyl tile, and floor covering adhesives. However, always conduct a test application prior to use.
- Not intended for use on surfaces to receive concrete overlays or additional

toppings, coatings, sealers or ceramic tile (without proper surface preparation).

- Cure & Seal Plus - ASR Sand Pop-Out Minim�izer is considered a light-duty floor sealer and may rubber burn when subjected to forklift or other wheeled traffic.
- Do not apply in or near areas containing foodstuffs when foodstuffs are present. Remove food products prior to application.
- Extended exposure to moisture may result in a temporary opaque condition that clears upon drying.
- Only mechanical methods of removal are recommended.
- The small amount of solvent vapors released during application may be objectionable to people unaccustomed to the odor; do not apply in or around buildings occupied by non-construction personnel without consulting the building management.
- Store between 40°F-85°F (4°C-29°C)
- Keep containers tightly sealed when not in use.
- Dispose of contents/container in accordance with all local and state regulations.
- 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.
- Always make certain the most current versions of the product data sheet and SDS are being used. Visit [www.cemstone.com](http://www.cemstone.com) to verify the most current versions.

## 6. AVAILABLE SIZES

- 5 gal. pail (18.93 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, which are excluded.** 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.

**FOR PROFESSIONAL USE ONLY**

## 8. MAINTENANCE

Stains should be removed as soon as possible. Cure & Seal Plus - ASR Sand Pop-Out Minim�izer can be applied to wear areas and areas where spills have removed the sealer.

## 9. TECHNICAL SERVICES

Cemstone 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. Tests have shown that with proper use sand pop-outs are minimized, however Cemstone does not guarantee a complete lack of sand pop-outs. 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 FROM FREEZING**

**WARNING: INJURIOUS TO EYES**

**KEEP OUT OF REACH OF CHILDREN**