



SUPER DIAMOND GLAZE

Curing, sealing, and color enhancing of exposed aggregate concrete

February 2021 • Version 2.4

1. PRODUCT NAME

Super Diamond Glaze

2. MANUFACTURER

Super Diamond Glaze is manufactured for Cemstone Products Company
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA

Phone: 1-800-CEMSTONE

Local: 651-688-9292

Internet: cemstone.com

3. PRODUCT DESCRIPTION

Super Diamond Glaze is a higher viscosity version of Super Clear Coat used for curing and sealing exposed aggregate and sealing colored concrete. Recommended for use when a single application glossier than Cure & Seal is desired. Made with a blend of 100% methacrylate polymers, this aromatic solvent-based coating does not yellow when exposed to the sun's UV.

WHEN/WHERE TO USE

- For high-gloss, "wet-look" shine
- Exterior applications, above grade
- Vertical or horizontal applications
- New or existing applications
- Final seal for colored concrete, paving stone, terrazzo, natural and synthetic stone, brick, stucco, quarry tile, burnish block, and other cementitious materials
- Also aids in curing new exposed aggregate and concrete.

ADVANTAGES

- Color enhancing, darkens the color and adds high-gloss to the applied surfaces
- Non-staining, non-yellowing
- Ready to use, do not dilute
- Minimizes spalling and aggregate pops by penetrating into the surface of the concrete or exposed aggregate to fill gaps and voids
- Makes surfaces less dusty and easier to clean, including grease or rust stains on garage floors and driveways
- Can be applied to new non-colored concrete as a curing compound, it reduces the loss of water during the hardening process
- Easy to apply with a roller or long nap applicator
- Forms a membrane to increase protection from damaging freeze-thaw cycles, deicing salts, efflorescence, and chemical erosion
- Protects surfaces from most chemicals, dirt, acids, alkali, oil, grease, foods, and airborne pollutants while making these surfaces easier to clean.

- 2-hour drying time to be open to traffic
- Higher solids content provides increased abrasion resistance in traffic areas
- Wear patterns can be easily re-coated

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 blend of 100% methacrylate polymers in a fast-drying aromatic solvent. 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	30%
Flash Point	> 100°F (> 37°C)
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, and 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 DE CRD— C300 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. Apply only to dry surfaces for optimal performance. Do not apply when rain is expected within 4-6 hours of application. Super Diamond Glaze will not freeze, however it must be allowed to warm to at

least 50°F (10°C) prior to using. Contains aromatic hydrocarbon. DO NOT STORE OR USE NEAR HEAT OR OPEN FLAME. Keep containers tightly sealed when not in use, and use only in well-ventilated areas. Read and understand Safety Data Sheet pages available from Cemstone Products for all safety precautions prior to use.

New Concrete: Wash with a mild acid solution to remove dust residue and flush with clean water. Allow surface water to completely dissipate.

Colored Concrete: Do not use as a curing agent on freshly poured colored concrete. Color will be intensified with Super Diamond Glaze. Apply only when the colored concrete has fully cured, is dry, and the color looks uniform.

Existing Concrete: Repair any cracks or damaged areas. Surfaces must be clean, dry and free from oil, grease, dust, and curing compounds. Surface must be dry to not trap moisture between the film and the concrete slab, which can cause a white film to develop.

Paving Block, Patio Stone, Brick and Exposed Aggregate: Surfaces must be clean and dry to avoid trapping moisture.

Stamped Concrete: Proper washing is important, any abundance of oil from a liquid release agent can block adhesion of the Super Diamond Glaze. When using a powdered release agent, delamination of the sealer may occur if the proper amount of release is not washed off the surface prior to sealer application.

MIXING

MUST STIR GENTLY PRIOR TO USE. Do not mechanically mix, or create bubbles by entraining air.

APPLICATION

- Apply when both air and surfaces temperatures are above 40°F (4.4°C) and the Super Diamond Glaze is above 50°F (10°C). For best results, avoid application in direct sunlight.
- A first coat of Cure & Seal is recommended followed with a top coat of Super Diamond Glaze to improve the depth of protection.
- Apply with an airless sprayer, roller or with a long napped applicator at the rate of 200-500 sq. ft. per gal. Work into the concrete, avoiding pooling, runs, or sags. Surface should have a uniform coating.



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- Allow first coating to thoroughly dry prior to application when a second coating is needed.

Exposed Aggregate: Exposed aggregate requires application in 2 coats: a first thin coat to cure; the second heavier coat forms a clear film to enhance coloring and protect surfaces. When using as a curing compound, the surface should first be washed with a mild acid solution to remove the thin film of cement dust, then thoroughly rinsed and allowed to dry prior to application of a thin coating of Super Diamond Glaze. The final coat is applied once the exposed aggregate has fully cured.

NOTE: Super Diamond Glaze will darken the appearance of 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.

CLEAN UP

Use mineral spirits or solvent-based cleaners, such as xylene on tools and equipment. For skin contact, wash thoroughly with soap and water.

COVERAGE

Approximate Coverage @ 70°F (21°C)	Sq. Ft./ gal.	M ² / L
Curing exposed aggregate	300-500	7.3-12.3
Second coat, cured concrete, burnished block	300-500	7.3-12.3

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

NOTES

- Super Diamond Glaze is not recommended as a curing agent on freshly-poured decorative concrete, or as a sealer on asphalt, surfaces subject to hydrostatic pressure, or as a waterproofing agent for below-grade surfaces.
- Existing surfaces must be fully dry to not trap moisture between the film and the concrete slab, which can cause a white film to develop.
- Since it is a solvent-based sealer, keep away from heat and flame. Use only with sufficient ventilation, do not

breathe vapor or mist, wear the appropriate properly fitted NIOSH/MSHA approved respirator. Close container tightly after each use.

- 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. It is not recommended Super Diamond Glaze be used as a curing compound when these conditions exist, however a seal coat can be applied for protection and dust-proofing when the concrete is fully cured and dry.
- Some fumes may be present during application. Use best practices when applying on interiors for proper ventilation. Super Diamond Glaze is non-toxic in it's cured state.
- Dispose of contents/container in accordance with all local and state regulations.
- Gently stir prior to use, Do not use a mechanical mixer or create bubbles by entraining air.
- 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 SIZE

- 1 gal. (3.8 L) bottle —Product #120314
- 5 gal. (18.9 L) pail —Product #120233
- 55 gal. (208 L) drum —Product #120337

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

Normal sweeping, dusting or mopping. If spillage removes the coating, or if traffic wear patterns occur Super Diamond Glaze can be re-applied 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