



EUCLID CHEMICAL

SUPER DIAMOND CLEAR

Solvent-Based, High-Solids, Non-yellowing
Cure & Seal for Concrete

Description

SUPER DIAMOND CLEAR is a solvent-based curing and sealing compound specially designed to cure new concrete, assuring proper cement hydration and strength gain, while providing a non-yellowing seal to protect and enhance the appearance of concrete. Super Diamond Clear is particularly suited for curing and sealing exterior architectural concrete, where membrane yellowing is undesirable. Super Diamond Clear can be tinted with Euclid Universal Color Packs, which are available in 33 standard colors.

Primary Applications

- Driveways & exterior pavements
- Walls and columns
- Exposed aggregate
- Dry shake floors
- Curing and sealing decorative concrete

Features/Benefits

- Helps promote development of concrete strength and durability through proper curing
- Enhances color and provides gloss to the surface
- Will not yellow under ultraviolet exposure
- Can be tinted with Euclid Universal Color Packs to even out variegated concrete surfaces

Technical Information

The following information was obtained under laboratory conditions (73°F (24°C), 50% relative humidity)

Dry to Touch	< 1 hour	VOC Content	650 g/L
Recoat	2 hours minimum	Solids Content (by weight)	> 25%
Foot Traffic	2 to 4 hours	Moisture Loss ASTM C156	< 0.40 kg/m ²
Wheel Traffic	6 to 10 hours		

Appearance: SUPER DIAMOND CLEAR is a clear liquid in the container. After application and drying, SUPER DIAMOND CLEAR will greatly darken concrete, and will have a high-gloss finish. A small test area is strongly recommended to confirm appearance prior to beginning full application.

*Lower concrete temperatures, lower ambient temperatures, higher relative humidity, or a combination of the above will extend drying times.

Packaging

SUPER DIAMOND CLEAR is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8 L) jugs (4 jugs per case).

Shelf Life

3 years in original, unopened container

Specifications/Compliances

ASTM C1315, Type 1, Class A
ASTM C309, Type 1, Classes A & B
AASHTO Specification M 148, Type 1, Classes A & B

USDA compliant

Coverage

Application ft ² /gal (m ² /L)	First Coat	Second Coat (Optional)
Curing & Sealing Fresh Concrete	300 to 400 (7.4 to 9.8)	400 to 450 (9.8 to 11.0)
Sealing or Re-sealing Existing/Cured Concrete	400 to 450 (9.8 to 11.0)	450 to 550 (11.0 to 13.5)

NOTE: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity. **Avoid excessive build-up of sealer, as this may cause discoloration and/or poor product performance.**

Directions for Use

Surface Preparation: For existing concrete, the surface must be clean of any and all surface contaminants, and free of standing water. If applying SUPER DIAMOND CLEAR to previously sealed concrete, call Euclid Chemical to check compatibility. If the chemical makeup of the previous sealer is unknown, a small test section is strongly recommended to check compatibility between SUPER DIAMOND CLEAR and the old sealer. When applying SUPER DIAMOND CLEAR to freshly poured concrete as a cure & seal, the surface bleed water must be allowed to evaporate prior to applying SUPER DIAMOND CLEAR, and the surface must be hard enough as to not be marred during product application.

Mixing: SUPER DIAMOND CLEAR requires no pre-blending prior to use. If using Euclid Universal Color Packs or Euco Grip with this sealer, please refer to those products' technical data sheets for mixing instructions.

Application: Apply at the recommended coverage rate using an industrial, solvent-resistant pump-up sprayer with a high-solids nozzle and a short-nap, solvent-resistant roller. Apply sealer uniformly to the concrete using sprayer, then lightly backroll the sealer to ensure even coverage. Maintain a "wet edge" while spraying, and backroll over sprayer lap marks for best appearance. SUPER DIAMOND CLEAR may be applied by roller alone, but extra care must be taken to ensure that the sealer is applied uniformly, and at the proper coverage rate. Re-distribute any puddles or runs before SUPER DIAMOND CLEAR dries. Protect freshly coated surfaces from rain or heavy fog for a minimum of 12 hours after application.

Application of SUPER DIAMOND CLEAR too heavily, in too many successive coats, or in multiple coats from re-sealing too frequently can cause bubbling, whitening, peeling, flaking, and ultimately, failure of the product. To prevent over-application, it is good practice to measure the area to be sealed and then measure the corresponding volume of product required based on the coverage rate. In addition, applying SUPER DIAMOND CLEAR in hot weather/direct sunlight or onto a hot surface can cause bubbling.

For additional guidance in applying Euclid Chemical curing and sealing compounds, visit our website to see an instructional video on the procedure.

Clean-Up

Tools and equipment may be cleaned with EUCO SOLVENT, xylene/xylool, or acetone (always follow package directions and warning labels) immediately following use. Clean drips and overspray with one of the above solvents while still wet. Run cleaning solvent through spray equipment to remove residual materials and prevent clogging of nozzle in future use. If not cleaned immediately, the sealer may leave an unwanted residue on painted surfaces, glass, or wood.

Removal

Dried, cured SUPER DIAMOND CLEAR may be removed with a strong solvent such as EUCO SOLVENT, xylene/xylool, or MEK (always follow package directions and warning labels). EUCO CLEAN & STRIP is a citrus-based stripper that can also be used to remove this product. Alternatively, the product can be removed by sandblasting or by other similar mechanical means.

Precautions/Limitations

- Keep SUPER DIAMOND CLEAR away from open flames, sparks, or other sources of ignition
- If using SUPER DIAMOND CLEAR indoors, ensure adequate fresh air ventilation and block all HVAC ducts which may distribute solvent odor. Extinguish any pilot lights or other sources of ignition prior to starting SUPER DIAMOND CLEAR application.
- SUPER DIAMOND CLEAR will not freeze in storage, but should be allowed to reach at least 50°F (10°C) before use
- Surface and ambient temperature during coating applications should be between 40°F and 90°F (4°C and 32°C)
- Do not apply SUPER DIAMOND CLEAR to frost-filled or frozen substrates
- Do not apply SUPER DIAMOND CLEAR in hot direct sunlight
- Do not apply SUPER DIAMOND CLEAR over bleed water or free-standing water
- Do not apply SUPER DIAMOND CLEAR if rain or heavy fog is expected within 12 hours of application
- Do not thin SUPER DIAMOND CLEAR
- SUPER DIAMOND CLEAR is not resistant to gasoline or other automotive fluids
- SUPER DIAMOND CLEAR will enhance color and darken substrates
- Excessive build up of SUPER DIAMOND CLEAR or puddling of the product during application can lead to failure to dry completely, bubbling, whitening, peeling and/or flaking of the sealer, and discoloration of the concrete
- Applying thicker than recommended, applying in cool/cold weather, prolonged exposure to moisture (high humidity, rain), or lack of air flow may result in the sealer remaining soft/wet/tacky for longer than the times found on this data sheet
- When floor covering adhesives will be used following SUPER DIAMOND CLEAR application, a test area is recommended to ensure compatibility of the adhesive with SUPER DIAMOND CLEAR
- Application of a test area is strongly recommended to confirm final appearance and texture of the product with the end user
- In all cases, consult the product Safety Data Sheet before use

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