



EUCLID CHEMICAL

# SUPER DIAMOND CLEAR

## HIGH SOLIDS, NON-YELLOWING CURING AND SEALING COMPOUND

CURING AND SEALING

### 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

#### Typical Engineering Data

The following results were developed under laboratory conditions.

<b>Drying time*</b> @ 73°F, 50% RH.....	<1 hour	<b>Alkali resistance</b>	48 hour exposure.....	excellent
<b>Recoat</b> .....	2 to 24 hours	<b>Solvent resistance</b> .....		minimal
<b>Foot traffic</b> .....	2 to 4 hours	<b>Resistance to yellowing</b> .....		excellent
<b>Wheel traffic</b> .....	6 to 10 hours	<b>Solids content</b> .....		> 25%
<b>VOC content</b> .....	650 g/L	<b>Moisture loss</b> (ASTM C 156) .....		< 0.40 kg/m <sup>2</sup>
<b>Adhesion to concrete</b> .....	excellent			
<b>Adhesion of asphalt tile</b> .....	passes			

\* Low concrete or air temperature and/or high relative humidity will extend drying time.

**Appearance:** Super Diamond Clear is a clear liquid, that provides a clear, glossy film after drying. Super Diamond Clear will darken concrete, masonry, pavers, etc., giving these materials a “wet” look. Super Diamond Clear can also be tinted with Euclid Universal Color Packs (EUCCO Packs), which are available in 33 standard colors. See the EUCLID UNIVERSAL COLOR CHART for available colors.

### PACKAGING

Super Diamond Clear is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails and 4/1 gal (3.8 L) units per case.

### SHELF LIFE

3 years in original, unopened container.

### SPECIFICATIONS/COMPLIANCES

- ASTM C 309, Type 1, Class A & B
- ASTM C 1315, Type 1, Class A
- AASHTO Specification M 148, Type 1, Class A & B
- USDA compliant

### COVERAGE

<u>Application</u> ft <sup>2</sup> /gal (m <sup>2</sup> /L)	<u>First Coat</u>	<u>Optional Second Coat</u>
Curing and Sealing New Concrete	300 to 400 (7.4 to 9.8)	400 to 450 (9.8 to 11.0)
Sealing Cured Concrete	400 to 450 (9.8 to 11.0)	450 to 550 (11.0 to 13.5)

Coverage will vary from the above rates depending on surface porosity and texture.

SUPER DIAMOND CLEAR

MASTER FORMAT #: 03 39 23

## DIRECTIONS FOR USE

**Surface Preparation:** When used as a sealer, the concrete surface must be clean and dry. Remove any curing compounds, sealers, or other material that may prevent adhesion of the Super Diamond Clear.

**Mixing:** Super Diamond Clear requires no preblending and should be used directly from the container. If a color is needed, mix 2 to 3 Euclid Universal Color Packs into a 5 gal (18.9 L) pail of Super Diamond Clear for a translucent finish. If an opaque finish is required, mix 4 to 5 Euclid Universal Color Packs into the pail. Frequently stir the tinted Super Diamond Clear to keep the color packs in suspension while applying.

**Application:** Apply at a uniform coverage by spray or roller. Product must be sprayed with a high pressure pump-up sprayer equipped with a high solids nozzle, or with an airless industrial sprayer. If roller applied, use a short napped, solvent resistant sleeve. Keep a wet edge while spraying and backroll over sprayer lap marks for best appearance. Tinted Super Diamond Clear is best applied with a short nap roller for better and more uniform coverage. If you have to spray tinted Super Diamond Clear, it is good practice to put 2 golf balls in the sprayer and shake frequently to help keep the color packs in suspension.

**Curing and Sealing:** For the best cure of freshly placed concrete, apply Super Diamond Clear as soon as possible after finishing operations and/or immediately after the disappearance of the "sheen" of surface moisture. If sealing cured concrete, the surface must be thoroughly clean and dry. Pressure washing with a strong alkaline detergent to remove dirt, waxes, and oil is suggested. Acids will not sufficiently clean or remove dirt, curing compounds, or old sealer from concrete.

Application of Super Diamond Clear too heavily, in too many successive coats, or in multiple coats over time can cause bubbling, whitening, peeling, and ultimate failure of the product. To prevent over-application, it is good practice to measure the area to be sealed and the corresponding volume of product required based on the coverage rate. Also, applying Super Diamond Clear in hot weather or onto a hot surface can cause bubbling. If Super Diamond Clear is showing signs of over-application, scrub the surface with a solvent such as acetone\* or xylene\*, using a stiff natural bristle brush. Keep the surface wet with the solvent while scrubbing, adding more if necessary. The solvent will turn the sealer back into a liquid form, at which point excess material can be wiped off with a lint-free mop or towel. Do not apply additional sealer. After removing the excess Super Diamond Clear, a roller can be used to redistribute the remaining product evenly across the surface, adding more solvent as necessary to keep the sealer wet.

*\*Available at home improvement stores. Follow all safety precautions printed on the package.*

## CLEAN-UP

Tools and equipment may be cleaned with acetone or xylene before the product dries.

## REMOVAL

Dried, cured sealer may be removed with strong solvents such as xylene or acetone. Also acceptable is EUACO CLEAN & STRIP or commercial paint strippers (always heed directions and warning labels). Alternatively, Super Diamond Clear can be removed by sandblasting or by other mechanical means.

## PRECAUTIONS/LIMITATIONS

- Use with adequate ventilation and keep away from open flames. Block all HVAC ventilation ducts which may distribute solvent odor. If solvent odor is objectionable, use of a water based, low odor product may be preferred.
- Material will not freeze in storage but should be allowed to rise to 50°F (10°C) before use.
- Do not apply when concrete surfaces or ambient temperatures are below 40°F (4°C). Application in hot direct sunlight, or when the concrete and/or air temperature is 90°F (32°C) and rising, may cause bubbling.
- Do not apply over bleed water or free standing water.
- Super Diamond Clear will darken the color of concrete, masonry, pavers, etc., giving these surfaces a "wet" look. To seal concrete with no change in appearance, the use of BARACADE WB 244 or EUACO-GUARD 100 is recommended.
- For a high gloss finish, two THIN coats of Super Diamond Clear is suggested rather than one heavy application.
- Tinted Super Diamond Clear is a thin film cure and seal and it will wear over time. It is not intended to be a coating or permanent fix to poorly colored or finished concrete.
- Before installing carpet, tile and floor covering adhesives, a test section is recommended to ensure compatibility.
- Not resistant to gasoline or brake fluid.
- Do not thin this product.
- In all cases, consult the Safety Data Sheet before use.

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