



EUCLID CHEMICAL

# DIAMOND CLEAR 350

Non-yellowing, Low VOC, Exempt Solvent Based Concrete Curing Compound And Cure & Seal

Curing and Sealing

## Description

Diamond Clear 350 is a low VOC, non-yellowing concrete curing compound and cure & seal used to cure and seal exterior concrete. Diamond Clear 350 is formulated with a unique exempt solvent blend that gives this product all the performance benefits of traditional solvent based curing and sealing products while ensuring compliance with VOC laws in regulated areas. Diamond Clear 350 can be tinted with Euclid Universal Color Packs, which are available in 33 standard colors.

## Primary Applications

- Curing and sealing concrete surfaces
- Walls and columns
- Parking garages
- Dry shake hardened floors

## Features/Benefits

- Maintains adequate moisture in new concrete so that strength and durability properties can develop
- Will not yellow under ultraviolet exposure
- Slower drying than products based on acetone or tert-butyl acetate exempt solvents
- Low VOC content
- 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:

**Drying time\*** @ 73°F (24°C), 50% RH:..... <1 hour  
**Recoat** .....2 to 24 hours  
**Foot traffic** .....2 to 4 hours  
**Wheel traffic** .....6 to 10 hours  
**VOC content**.....320 g/L  
**Flash Point**.....63°F (17°C)

**Resistance to yellowing**.....excellent  
**Solids content**..... 15%  
**Moisture loss** ASTM C 156..... < 0.55 kg/m<sup>2</sup>

\*Low concrete or air temperatures and/or high relative humidity will extend drying times. and appearance.

**Appearance:** Diamond Clear 350 is a clear liquid that after drying provides a clear, glossy film. Diamond Clear 350 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

Diamond Clear 350 is packaged in 55 gal (208 L) drums and 5 gal (18.9 L) pails.

## Shelf Life

3 years in original, unopened package.

## Coverage

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

Coverage will vary depending on surface porosity and texture. Thick applications or build-up of multiple coats can cause bubbling, whitening, and peeling.

## Specifications/Compliances

- ASTM C 309, Type 1, Class A & B
- AASHTO Specification M 148, Type 1, Class A & B
- USDA compliant
- Complies with Federal AIM Rule VOC regulations and with VOC standards in the OTC and LADCO states

DIAMOND CLEAR 350

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## Directions for Use

**Surface Preparation:** The concrete surface must be clean and free of standing water. Remove any sealer or other material that may prevent adhesion of the Diamond Clear 350.

**Mixing:** Diamond Clear 350 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 Diamond Clear 350 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 Diamond Clear 350 to keep the color packs in suspension while applying.

**Application:** Apply at a uniform coverage with an industrial hand held pump-up sprayer equipped with a 1.0 gallon per minute (3.8 L per minute) spray tip and neoprene fittings. Common garden-type sprayers should not be used. Keep pressure in pump-up sprayers as high as possible to ensure a steady and even spray pattern. If backrolling over spray-applied sections, use a short 1/4" (0.64 cm) nap, solvent resistant roller cover. Any backrolling must immediately follow spraying, as this product dries quickly. It is helpful to keep the roller wet with Diamond Clear 350 or Euco Solvent while rolling. If applying Diamond Clear 350 by roller only, use a short 1/4" (0.64 cm) nap, solvent resistant roller cover. Keep the roller wet and keep a wet edge while applying to avoid lap marks. Do not roll back and forth excessively, as this will cause bubbling. The first coat of Diamond Clear 350 acts as a primer for the second coat. Allow the first coat to dry tack-free before applying the second coat. Best performance and appearance is achieved with two THIN coats, following the prescribed coverage rates. Tinted Diamond Clear 350 is best applied with a short nap roller for better and more uniform coverage. If you have to spray tinted Diamond Clear 350, it is good practice to put 2 golf balls in the sprayer and shake frequently to help keep the color packs in suspension.

**NOTE:** Diamond Clear 350 dries very quickly (faster than standard solvent-based products). While spraying, keep the sprayer tip down near the concrete within 8" (20 cm) of the surface. Use of this product in hot weather, in direct sunlight, or in windy conditions can cause bubbling. The best time to apply this product is on a cool, overcast day when the temperature is 50°F to 80°F (10°C to 27°C) and is not expected to rise above 85°F (29°C) during application and drying time. Keep Diamond Clear 350 cool before applying.

Application of Diamond Clear 350 too heavily, in too many successive coats, or in multiple coats over time can cause bubbling, whitening, peeling, and ultimate failure of the product. Also, applying Diamond Clear 350 in hot weather or onto a hot surface can cause bubbling. If Diamond Clear 350 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 Diamond Clear 350, 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 EUCO SOLVENT, xylene or acetone. Run cleaning solvent through spray equipment to remove residual materials and prevent clogging of nozzle in future use.

## Removal

Dried, cured sealer may be removed with strong solvents such as xylene or acetone (always follow product directions and warning labels). EUCO CLEAN & STRIP is a citrus-based stripper that can also be used to remove this product. Alternately, the sealer can be removed by sandblasting or by other similar mechanical action.

## Precautions/Limitations

- Diamond Clear 350 is a Flammable Liquid. Use with adequate ventilation and keep away from heat, sources of spark or ignition, and 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 40°F (4°C) before application.
- Do not apply when concrete surfaces or ambient temperatures are below 40°F (4°C). Do not apply to hot surfaces, in hot direct sun, or when the ambient temperature is above 85°F (29°C).
- Do not apply over bleed water or standing water.
- Tinted Diamond Clear 350 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 good bond between the adhesive and Diamond Clear 350.
- 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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