

KAUFMAN

PRODUCT
INFORMATION

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Krystal Shield OTC

Description

Krystal Shield OTC is a slow evaporating, non-yellowing, solvent borne, hybrid curing & sealing compound and penetrating sealer. When applied to freshly placed concrete, Krystal Shield OTC will form a glossy or "wet-look" membrane meant to retain water in the concrete for proper hydration. On aged concrete, the silane component of Krystal Shield OTC will penetrate the concrete to provide protection from contaminants and the effects of freeze-thaw exposure while also providing the "wet-look." This combination will provide tremendous protection for years of service life.

Krystal Shield OTC is a ready-to-use curing compound that meets both ASTM C-309 and ASTM C-1315 and is formulated to meet all VOC regulations from the EPA, LADCO, and the OTC. In addition, Krystal Shield OTC is composed of a unique solvent blend that is designed to evaporate slower, making it easier to apply the product without it flashing off in the sun and making it unnecessary to dilute it with xylene. Furthermore, Krystal Shield OTC includes our bubble-release technology to help ensure a beautiful finish.

Uses

Krystal Shield OTC is recommended for curing, hardening, dustproofing, and sealing of both new and old concrete surfaces. Krystal Shield OTC is an excellent product for use on concrete driveways, sidewalks, concrete slabs, parking decks, walls, columns, distribution warehouses, parking lots, and patios as it will provide protection against the damaging effects of traffic, weather, and de-icing salts.

Compliances

ASTM C-1315, Type 1, Class A for curing
ASTM C-309, Type I, Classes A & B

Packaging

55 gal. drums (208 liters)
5 gal. pails (18.9 liters)
1 gallon cans (3.78 liters)

Physical Characteristics @ 75° F, 50% RH

Color	Clear
Viscosity	30-40 cps
Solids Content	25%
Specific Gravity	1.03
Dry Time	<35 minutes
VOC Content	< 350 g/L
Moisture Loss (ASTM C-156)	<0.34 kg/m ²
Specular Gloss (ASTM D-523)	95%
Flash Point	40° F FLAMMABLE
Shelf Life	2 years in unopened container

Directions

Fresh Concrete – Krystal Shield OTC should be applied within 1-2 hours after completion of the finishing operations or as soon as possible after surface water has disappeared. Coat the surface uniformly, leaving no pinholes or gaps, at a coverage rate of 200-250 ft² per gallon. Do Not Puddle. If using on broom finished concrete, increase the coverage rate to make up for the added surface area. Coverage can vary based upon porosity of concrete.

If using a roller, use a ¼" nap that is solvent resistant. Keep the roller wet and keep a wet edge while applying to avoid lap marks. Excessive rolling will cause bubbles. Apply with hand sprayers equipped with Viton O rings and fittings and nozzles specifically designed for low-VOC curing compounds. Common garden type sprayers should not be used.

Aged Concrete - Remove all foreign matter including oils, grease, dirt, and any other contaminants that could cause adhesion issues. Use K Pro CD to remove any oil-based contamination. Apply Krystal Shield OTC as described above, however the coverage rate may vary from 200-300 ft² per gallon depending on texture and porosity of surface. When used on old concrete, due to the uneven porosity of concrete, it is possible that a blotchy appearance may develop.

Re-Sealing -

Once the acrylic resins have worn off, the concrete surface may be re-sealed using either Krystal Shield OTC or one of our SilaneSeal series products. If re-sealing with a SilaneSeal series product, perform a water test prior to application. If water penetrates into the concrete, then the concrete will accept an application of a SilaneSeal series product.

The use of SureGrip, added directly to Krystal Shield OTC prior to application, will provide a slip-resistant surface.

Special Precautions

Prior to use, STOP and read & understand the label, product data sheet, and current Safety Data Sheet for Krystal Shield OTC. Do not thin. This product will not freeze; however, bring the temperature of the product up to at least 60°F by leaving it in a warm environment.

Never apply direct heat to the product. Heavy applications can lead to improper drying, bubbling and discoloration.

Do not apply to surfaces meant to receive a cementitious topping.

Due to the extremely low flash point, Krystal Shield OTC should NOT be used inside any structures without adequate ventilation. This product is highly flammable, and vapors may ignite explosively, causing flash fires, severe burns, and death. Use with adequate ventilation and keep away from open sparks, flames, pilot lights, stoves, water heaters, electric motors, and any other sources of ignition during use and until all vapors are gone. Vapors are heavier than air and may travel long distances to areas away from work site before igniting and exploding. Prevent the buildup of vapors; use ONLY with substantial cross ventilation. Do not breathe vapors or spray mist and ensure fresh air during application and drying. If eye watering, headache, dizziness, or air monitoring demonstrates vapor/mist levels are above the applicable limits, wear an appropriate and properly fitted respirator (NIOSH approved) during and after application.

Follow respirator manufacturer's directions for proper respirator use. If a spill occurs, contain the spill, and use an inert absorbent. Make certain to properly dispose of the absorbent. **Do not smoke while applying this product or anywhere near the related vapors.** Block all HVAC ducts, doors, or windows, which may distribute solvent odor. If solvent odor or safety concerns are objectionable, use one of our emulsions (water based) products such as Krystal 25 Emulsion EF, Krystal 25 Emulsion, or Krystal 30 Emulsion. The complete Safety Data Sheet MUST BE READ before using and is available online at www.kaufmanproducts.net or through our office at 800-637-6372.

When Krystal Shield OTC is applied to porous surfaces (and particularly unevenly porous surfaces), such as flagstone, slate, terrazzo, or old concrete, the product will penetrate unevenly. The uneven penetration of the product may lead to an uneven or blotchy finish. AIM rules do not allow thinning of this product. For more complete instructions, please refer to "*Recommended Field Procedures for Curing & Sealing Compounds.*"

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Technical Information

The following results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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LIMITED WARRANTY: We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, there are no warranties which extend beyond the description on the face hereof, and **Kaufman Products, Inc. makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc. shall have no other liability with respect hereto.** The user shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors, and their salespeople have no authority to change the printed recommendations concerning the use of our products.