

K A U F M A N

PRODUCT
INFORMATION

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Krystal Shield

Description

Krystal Shield is a non-yellowing, solvent borne, hybrid curing & sealing compound and penetrating sealer all in one unique formulation. When applied to freshly placed concrete, Krystal Shield will form a glossy or "wet-look" membrane meant to retain water in the concrete for proper hydration and for purely aesthetic reasons. On aged concrete, the silane component of Krystal Shield 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 is a ready-to-use chemistry that meets both ASTM C-309 and ASTM C-1315 and is formulated to meet all VOC regulations from the Environmental Protection Agency (EPA). Krystal Shield also includes our bubble-release technology to help ensure a beautiful finish.

Uses

Krystal Shield is recommended for curing, hardening, dustproofing, and sealing of both new and old concrete surfaces. Krystal Shield 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
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	0.85
Dry Time	< 2 hours
VOC Content	< 675 g/L
Moisture Loss (ASTM C-156)	<0.39 kg/m ²
Specular Gloss (ASTM D-523)	95%
Flash Point	105° F
Shelf Life	2 years if unopened

Directions

Fresh Concrete – Apply Krystal Shield 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 Krystal Shield 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.

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 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.

Skid-Resistance -

The use of SureGrip, added directly to Krystal Shield 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. 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.

Do not use Krystal Shield inside any structures without adequate ventilation. This product is 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 sites before igniting and exploding. Prevent the buildup of vapors; use ONLY with substantial cross ventilation. Do not breathe vapor 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 Krystal Shield Emulsion. The complete Safety Data Sheet MUST BE READ before using it and is available online at www.kaufmanproducts.net or through our office at 800-637-6372.

When Krystal Shield 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. For more complete instructions, please refer to "*Recommended Field Procedures for Curing & Sealing Compounds.*"

THIS IS AN INDUSTRIAL PRODUCT AND IS NOT OFFERED FOR RESIDENTIAL OR CONSUMER USE. KEEP OUT OF REACH OF CHILDREN.

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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