

K A U F M A N

PRODUCT
INFORMATION

KAUFMAN
PRODUCTS
INC.

3811 CURTIS
AVENUE

BALTIMORE,
MARYLAND
21226-1131

410-354-8600
800-637-6372
www.kaufmanproducts.net

Krystal Shield Emulsion

Description

Krystal Shield Emulsion is a non-yellowing, water-based, hybrid curing & sealing compound and penetrating sealer all in one unique formulation. When applied to freshly placed concrete, Krystal Shield Emulsion will form a glossy 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 Emulsion 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 Emulsion is a ready-to-use chemistry that meets both ASTM C-309 and ASTM C-1315 and includes our bubble-release technology to help ensure a beautiful finish.

Uses

Krystal Shield Emulsion 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 jugs (3.78 liters)

Physical Characteristics @ 75° F, 50% RH

Color	Clear
Viscosity	100 cps
Solids Content	>25%
Specific Gravity	0.85
Dry Time	2-3 hours
VOC Content	< 350 g/l
Moisture Loss (ASTM C-156)	<0.39 kg/m ²
Specular Gloss (ASTM D-523)	90%
Shelf Life	2 years if unopened

Directions

Fresh Concrete – Apply Krystal Shield Emulsion 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 Emulsion 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 1/4" nap on hard troweled concrete and a 3/8" roller on stamped concrete. 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 Emulsion 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 Emulsion.

Skid-Resistance -

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

Special Precautions

Do not thin. Heavy applications can lead to improper drying, bubbling, and discoloration. If applied too thick, the film will not dry properly and will leave a white film. Do not subject the coating to rain or water until it dries hard. All clear sealers produce an uneven gloss on existing concrete due to uneven porosity of the surface. Never apply over puddles.

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

Clean equipment with clean water before the product dries. After drying, strong solvents, such as Xylene, MEK, or Toluene will soften and help to remove the film.

Both Krystal Shield Emulsion and the substrate must be at least 45°F before application.

Not designed for immersion in strong chemicals or prolonged exposure to gas.

For professional use only. Not for sale or use by the public.

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.

This material is freeze/thaw stable. However, if exposed to freezing, stir well before use.

When applied to porous surfaces (and particularly unevenly porous surfaces), such as flagstone, slate, terrazzo, or old concrete, Krystal Shield Emulsion 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."*

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.

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

Technical Information

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