

CRYSTAL 1315 HF Cure & Seal

Breathable, high solids, solvent based, non-yellowing, copolymer-acrylic, decorative concrete cure and seal.



How it Works

CRYSTAL 1315 HF is a breathable, acrylic copolymer curing and sealing compound designed for use on new or existing concrete and plain or decorative surfaces. CRYSTAL 1315 HF forms a tough, non-yellowing, high-gloss, vapor permeable (breathable), transparent film on the concrete surfaces that retains mixing water for maximum curing and provides excellent abrasion resistance for long-lasting protection.

Applications

- » Use as a cure on freshly placed concrete.
- » Use as a sealer/dustproofer on both previously cured and new rough or smooth finished concrete surfaces.

Advantages

- » Complies with ASTM C 1315 Type 1, Class A & B ASTM C 309, Type 1, Class A & B; and, AASHTO M 148, Type 1, Class B. Compliant with USDA requirements for incidental food contact.
- » Remains sprayable in freezing temperatures.
- » Ensures sufficient retention of mix water for at least 72 hours, allowing concrete to develop maximum strength, density and surface hardness.
- » Reduces final clean-up costs by protecting concrete from oil, grease and spills and from mortar splashing adhesion.
- » Second applications, after final clean-up, beautify concrete appearance with a lustrous sheen.
- » Compatible with most adhesives used for resilient tile floor coverings and concrete paints.
- » Can be applied as an anti-spalling compound, providing resistance to destructive chemical deicing salts.
- » Treated surfaces are readily recoatable when necessary without sanding or scarification.
- » Federally VOC compliant.

Precautions

- » Prior to the application of CRYSTAL 1315 HF to decorative, stamped concrete, all color release residue must be removed to ensure proper adhesion and maximum longevity of the clear sealer. Contact Concrete Central for specific removal recommendations.
- » Do not use on concrete slabs with inadequately drained subgrade, treated surfaces to be covered with concrete or plaster, and/or surfaces subject to hydrostatic water pressures.
- » Coating delamination (blistering) may occur if applied prior to allowing all surface bleed water to fully evaporate. A moisture saturated subgrade or a moisture barrier placed beneath the slab to be cured and/or sealed may increase the risk of coating delamination.

- » Do not use with other floor sealers, treatments, bondbreakers or adhesives without prior site test to determine compatibility and adhesion.
- » Any variations in concrete surface density may be highlighted by surface mottling after product application. Make test application to determine performance and appearance acceptability.
- » Do not use around sparks or open flame. Provide adequate ventilation.
- » Treated surfaces may be slippery prior to drying and when wet with water or liquids after drying.
- » When used in exterior applications, coated surfaces will slowly oxidize in time, necessitating reapplication.
- » Over time, salt deposits from lawn and landscape sprinklers may accumulate on decorative concrete surfaces sealed with CRYSTAL 1315 HF, which may become objectionable in appearance. To remove salt deposits, wash the surface with a diluted solution of acetic acid (vinegar) and rinse well with water.
- » Do not apply CRYSTAL 1315 HF to concrete if substrate temperatures are below 40° F (4° C) or above 85° F (29° C). Best results are obtained when CRYSTAL 1315 HF is applied during the morning or evening hours and not in direct sunlight. Application of CRYSTAL 1315 HF in direct sunlight and under extreme hot conditions can result in solvent bubbling or blistering.

Application Equipment

- » A low pressure sprayer, 3/8 inch nap roller or brush is recommended. Spray apparatus should be equipped with an 8006-LP spray tip and chemical resistant hoses and gaskets. Larger areas are most economically treated with power sprayers.
- » Application equipment should be cleaned with aromatic solvents such as xylene or aromatic 100. (Read vendor's SDS before use.)

Coverage Rates

- » Application rates vary with substrate conditions. Approximate rate for curing is 250 sf/gal. (6.1 sm/L) per application. Approximate rate for sealing is 300 sf/gal. (7.4 sm/L) per application.

Use Instructions

- » Request current product literature, labels and safety data sheets from manufacturer and read thoroughly before product use.
- » Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- » Do not thin or dilute.
- » Best results are obtained from spray applying and then immediately backrolling the product for uniform surface coverage. Multiple, thin coats provide better performance and results than a single, heavy coat.

For Freshly Placed Concrete

- » Apply immediately following final finishing and after disappearance of surface water sheen.
- » Apply first coat as a thin application until the appearance of continuous surface film.
- » Avoid over application, puddles or runs.
- » For maximum gloss and surface appearance, apply a second, thin coat of CRYSTAL 1315 HF 2-4 hours after the first coat.

Previously Cured Concrete

- » Remove all dirt, oil, grease, paint or foreign curing residue with a citrus based cleaner/stripper and clean with a 10% caustic solution, exercising normal precautions for handling such materials.
- » Rinse thoroughly with clean water and squeegee off excess water.
- » Allow surface to dry 24-48 hours prior to the first coat application.
- » For maximum gloss and surface appearance, apply a second, thin coat of CRYSTAL 1315 HF 2-4 hours after the first coat.

Available Additives for Special Applications

- » For applications requiring reduced gloss, a flattening agent is available that creates a satin finish when mixed into CRYSTAL 1315 HF.
- » For applications requiring a non-slip finish, broadcast CRYSTAL GRIP, into the second coat immediately after application and back roll until uniformly distributed into the wet coating.
- » To create a warm tone to plain gray-colored concrete, mix CRYSTAL MERRIMACK BROWN color tint additive with CRYSTAL 1315 HF.

Maintenance

- » Wipe up all chemical, solvent or petroleum spills as soon as possible.
- » Remove dirt and debris by sweeping.
- » Wash periodically with low-pressure water and scrub brush to help maintain surface luster.
- » Clean damaged coating areas promptly and recoat.

Technical Data

Color, ASTM D-2300	<0.5
Clarity	Clear
Odor	Solvent
VOC	<700 g/L
Bulk Density	7.1 lbs./gal. (850 g/L)
Freeze Point	Below -20° F (-29° C)
Flash Point	105° F (41° C)
Dry (Dust/Tack Free)	2 hours
Dry (Light Traffic)	12 hours
Dry (Normal Traffic)	24 hours

Complies with ASTM C 309, Type 1, Class A & B; ASTM C 1315, Type 1, Class A & B; and, AASHTO M 148, Type 1, Class B. Compliant with USDA requirements for incidental food contact.

Packaging

Product is packaged in 5 gal. (19.0 L) pails.

Shelf Life

Shelf life is two years. Use before the "USE BY" date stated on product packaging.

Handling/Storage

Store in a dry location within a temperature range between 40° F (4° C) and 100° F (38° C).

Availability & Technical Services

For source or technical information, contact Concrete Central directly at 616-475-8800.

Limited Warranty

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

Concrete Central offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of Concrete Central. No other representative of or for Concrete Central is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

Concrete Central warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, Concrete Central will replace the defective product with new product without charge to the purchaser.

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