

CRYST PROTECT®

Article-No.: 02200

PROTECTIVE AND SEALER FOR CONCRETE FLOORS

DESCRIPTION

CRYST PROTECT® is a terminated binder based on α -silane technology specially formulated for the impregnation of mineral substrates or as a layer coating for enhancing the standard and hardened concrete surfaces and cementitious overlays by forming a sealed protective finish resistant to water and stains. CRYST PROTECT® provides a high gloss aesthetic finish, eliminating the need for floor waxing, polymer-based coatings, liquid polishes, and constant maintenance.

FEATURE AND BENEFITS

- Environmentally friendly
- Provides high gloss and good light reflection.
- low viscosity.
- Solvent and plasticizer-free.
- Easy application.
- Can be used outdoors or indoors.
- Good scratch resistance, high hardness, and abrasion resistance.
- Helps to prevent freeze or thaw damage.
- Fast drying.
- Nano molecules ensure deep penetration Nontoxic.
- Excellent Stain-Protection / Easy to Clean.
- Non-flammable.
- UV stable and breathable.
- Eliminates constant floor waxing.
- Reduces floor maintenance costs.

FIELD OF APPLICATION

CRYST PROTECT® is ideal to apply on concrete, block or brick walls:

- Standard and hardened concrete.
- Polished concrete
- Terrazzo.
- Cementitious overlays.
- Warehouse floors.
- Aircraft hangars.
- Distribution and storage facilities.
- Food-processing plants.
- Manufacturing / pharmaceutical facilities.
- Showrooms and schools.
- Any type of facility with an exposed concrete surface.

MATERIAL PROPERTIES

Form:	liquid
Appearance:	colorless transparency
Density:	approx. 1,15 g/cm ³ DIN 51757
Viscosity:	approx. 75 mPa.s
Application temperature:	from 8°C up to 45°C

DIRECTION FOR USE

Surface preparation:

The surface must be, dry, sound, absorbent, clean and have an open capillary structure. Remove any loose part, moss, algae, release agents, grease, formwork oil and other adhesion reducing separation layers before apply CRYST PROTECT®. Surface damaged area like cracks, holes or cavities have to be chased out, and treated with CRYST MORTAR®.

Application:

Surfaces to be treated should have an open surface so CRYST PROTECT® can penetrate and be absorbed. Remove all coatings, form oils, curing or sealing agents through chemical or mechanical means. Remove dust, dirt, laitance or any other contaminants by sweeping all areas to be treated with a fine bristle broom or scrub brush. Hose off with water and let dry. Remove any standing or puddled water to avoid dilution of CRYST PROTECT® before it is able to penetrate the surface. The material can be applied with a cleaning mop, shorthair roller or a brush. Airless spray application is equally possible.

Depending on the absorbency behavior of the substrate a second application (after 24 hours) may be necessary to attain a homogeneous finish.

Application rates:

Depending on the absorbency behavior of the substrate ~ 50 – 150 g/m² are typically required for the first layer. In the case of a second layer, by far a lower amount of material will be needed (~ 50 %).

NOTE:

- Always perform a test area prior to the actual application to ensure desired results.
- Neutralize the concrete floor before application if it is acid or alkali treated.
- Protect applied surface from moisture, water for at least 48 hours.
- Not for use on surfaces exposed to standing water.
- CRYST PROTECT® is ready to use, and no dilution is required.
- The surface can be used as soon as the application is complete and the surface is dry to the touch.
- It is the responsibility of the installer / applicator to ensure the suitability of the product for its intended use.
- For more detailed instructions, or information concerning the compatibility of the CRYSTARM® application contact the CRYSTARM® Technical Department or your local CRYSTARM® representative.

RECOMMENDED TOOLS

For processing: Low- pressure sprayer, brush, roller

Personal protective equipment: gloves, Safety glasses, and respiratory protection when spray-applied.

PACKAGING

CRYST PROTECT® is available in 20 l gallon, 200 l drum.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

STORAGE & SHELF LIFE

Keep CRYSTARM® products must be stored dry and at a temperature of no less than 45°F (7°C). 15 months is the maximum shelf life when stored under proper conditions in original unopened packaging. DO NOT ALLOW TO FREEZE!

SAFETY HANDLING

Avoid skin and eye contact by taking adequate precautions, such as wearing protective gloves and using breathing apparatus if applied in enclosed environments. If contact is made, flush areas with lots of water. For further information please refer to Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.



CRYSTARM®
Drescherstraße 53, D-71277 Rutesheim
CRYST PROTECT®
Impregnation for protection and repair of concrete structures
Protection against penetration Class 1.2 (I) and increasing of physical resistance Class 5.2 (I)]
Abrasion resistance: 30 % improvement
Capillary water absorption: Class II
Impact strength: Class III (20 Nm)
Bond strength by pull-off: 0,8 N/mm²
Penetration depth: 5 mm

CRYSTARM®

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WARRANTY: The Manufacturer warrants that the products manufactured by it conform to the formulation standards contained in all components in their proper proportion and are free from material defects. If any of the products are found to be defective the subsequent liability to The Manufacturer shall be limited only to the replacement of the product proven to be defective and shall not be liable for any other claim or for incidental or any consequential damages that may arise directly or indirectly with the said defective product. The user shall determine the suitability of the product for its intended use and the user assumes all liability in connection therein and the manufacturer shall not be liable save for terms of this warranty.