

Concrete densifier and hardener for cementitious surfaces

HTC Cure+

Description

HTC Cure+ is a highly reactive hybrid potassium-, lithium-silicate. The product is used as densifier and hardener on troweled concrete as well as on polished concrete between the steps.

Properties

HTC Cure+ provides a solution capable of increasing the abrasion- and scratch resistance of concrete, while adding basic stain resistance, limiting efflorescence and dustproofing your surface.

At the same time increasing the longevity of nearly any concrete surface, from freshly poured to decades-old concrete, and to do all of this in a labor-efficient, cost-effective manner. It penetrates deep into the surface and react with calcium hydroxide present in the concrete to form calcium silicate hydrate (CSH), which progressively hydrate to a glass-like crystalline structure.

The silica blend improves the density and hardness of concrete and reduces the penetration of liquids and dirt.

The product causes no or only slight color enhancement. Water absorption is reduced, the surface diffusion remains open.

HTC Cure+ offers premium densification with integrated basic stain protection.

Application

HTC Cure+ can be used on all calcareous floor coverings, such as grinded/polished and troweled concrete floors, cementitious screeds, terrazzo, terrazzo tiles, etc. Applications are e.g. industrial floors, market halls, logistic centers, supermarkets and in private homes, indoor and outdoor.

Processing

The surface to be treated must be dry and free from impurities. To ascertain the consumption make a separate sample area of the same surface. Apply the product with an airless sprayer and a suitable nozzle (0,2 - 0,3 is recommended). If possible, work hand in hand with a second person who is using a microfiber mop to facilitate a homogenous and efficient treatment. Avoid puddles during application. Keep surface moist for 20 minutes and then remove surplus material with an autoscrubber machine or rub into the floor with a polishing pad. Drying time will be around 1-2 hours. For very high absorbent floors a double treatment with HTC Cure+ is recommended. If the product is applied between grinding steps, the product should be left to harden for approx. 8 hrs. Any sequential grinding is normally continued the next day. If the product is applied between grinding steps, grinding normally is continued the next day.

Note: Adjacent surfaces must be protected against splashes. Remove surplus material film before drying up. Clean equipment with water.

Processing temperature

Avoid direct solar radiation during processing. The surface temperature should be between 5°C and 35°C (40 – 100 F). Floor heating should be turned off. Avoid direct moisture until the treatment is totally dry.

Drying time

The drying time (walkable) is between 1-2 hours. According to ambient temperature and humidity, drying time can vary. If an additional impregnation/sealer is applied after HTC Cure+ (e.g HTC Stain Protection) the waiting time is approx. 12 – 24 hours.

Productiveness

Depending on the absorption following values are to be assumed. At a second application half the consumption.

Reference value:

grinded/polished surface (application normally at grit 100 or 200: approx. 7 - 15 m² / liter.

trowelled surfaces: approx. 10 - 20 m² / liter

Storage

Store in cool, dry place, in closed container. Protect from frost. Shelf-life is 12 months. Opened cans should be worked up as soon as possible.

Environmental Protection

Do not empty into drains. WGK 1 (low water endangering).

Waste codes/waste designations according to EWC/AVV.

Waste code product: 06 02 05 Other bases

Waste code packaging: 15 01 10 packaging containing

residues of or contaminated by dangerous substances.

Dispose of waste according to applicable legislation.

Completely emptied packages can be recycled.

Security

HTC Cure+ is harmless to health after curing. A good ventilation should be provided during and after the application. Observance of special security measures if the product will be use in a spraying application. Safety data sheet available at www.htc-floorsystems.com.

Ingredients: Silicic acid, lithium salt and potassium methylsilanetriolate



Labelling according to Regulation (EC) No. 1272/2008 [CLP]. Causes serious eye irritation. Causes skin irritation. Do not breath dust/fume/gas/ mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

Packing Unit (PU)

- 20 liter PE canister
- 200 liter barrel

This information should only be a non-binding advice. The use of the products is based on local circumstances and on the surface itself. If there is no experience, and in cases of doubt, we recommend to try the product on a inconspicuous spot.