

Concrete densifier and hardener (Lithium silicate)

Description

OBTEGO® P-2 is a highly reactive lithium silicate. The product is used for silicization on cementitious surfaces. Usually OBTEGO® P-2 is used on grinded concrete floor surfaces between the grinding steps, but it can be also used on power trowelled concrete as a final treatment.

Properties

OBTEGO® P-2 penetrates deep into the surface and reacts then with free lime to calcium silicate hydrate (CSH), which progressively hydrated to a glass-like crystalline structure. Improved abrasion resistance, dust-freeness, impermeable and more resistance on the surface you get after the treatment with OBTEGO® P-2.

OBTEGO® P-2 improves the density and hardness of concrete and reduces also the penetration of liquids and dirt.

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

Field of Application

OBTEGO® P-2 is applicable to all calcareous floor coverings, such as grinded/polished and trowelled concrete floors / cementitious screeds, terrazzo tiles / terrazzo, etc. Applications are e.g. industrial floors, market halls, logistic centers, supermarkets and in private homes, indoor and outdoor use.

Note: Onto polymer modified concrete floors the product can be conditionally used, because of limited reaction with the floor.

Processing

The surface to be treated must be dry, firm, clean, absorbent and free from oil, grease and other as a release agent acting impurities. To ascertain the consumption, make a separate sample area of the same surface. Apply the product with a pump sprayer (likewise airless) and a suitable nozzle (0,2 - 0,3 is recommended). Work hand in hand with a second person, which is using a microfiber mop or a soft bristle broom to spread the material to a uniform wetting. Keep the surface moist/wet (not flooded) with material for approx. 20-30 minutes. Avoid puddles during application, but keep surface saturated. Remove surplus material after approx. 30 minutes with auto scrubber machine or rub into the floor with a buffing pad. Dried up excess creates white residues, which must be removed immediately. Drying time will be around 1-2 hours. For very high absorbent floors a double treatment with OBTEGO® P-2 is recommended. Is the product applied between the grinding steps, continue grinding/polishing 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 maybe turn 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 OBTEGO® P-2 (e.g. OBTEGO® R-50 or R-400) the waiting time is approx. 12 – 24 hours.

Productiveness

Depending on the absorption following values are to be assumed. A second application halved the coverage. Reference value:

grinded surface (application normally at grit 100 or 200: approx. 7 - 15 m² / liter; power trowelled surfaces: approx. 10 - 20 m² / liter

Storage

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

Environmental Protection

Not empty into drains. WGK 1 (low water endangering). Waste codes/waste designations according to EWC/AVV. 06 02 05* other bases: *Evidence for disposal must be provided. Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

Security

OBTEGO® P-2 is harmless to health after drying up. A good ventilation should be provided during and after the processing. Observance of special security measures if the product will be use in a spraying application. Safety data sheet available for professional user on request.

Ingredients: lithium hydroxide

Labelling according to Regulation (EC) No. 1272/2008 [CLP]. Causes skin irritation. Causes serious eye irritation. Do not breathe dust/fume/gas/ mist/vapors/spray. Wash with water thoroughly after handling. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Identification marking for transportation:

| PU | PU-marking | Transport documents |
|----|--------------------------------------|--------------------------------------|
| a | not applicable no dangerous goods | not applicable no dangerous goods |

Packaging Unit (PU)

- a) 20 liter PE canister
- b) 200 liter barrel (on request)
- c) 1.000 liter container (IBC) (on request)

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 an inconspicuous area.