

## Concrete densifier and hardener for cementitious surfaces

### Description

OBTEGO® P-3 is a highly reactive blend of potassium- and lithium silicate. The product is used as densifier and hardener on trowelled concrete as well as on grinded concrete between the steps.

### Properties

OBTEGO® P-3 penetrates deep into the surface and reacts then with free lime to calcium silicate hydrate (CSH), which progressively hydrates to a glass-like crystalline structure. Improved abrasion resistance, dust-free, impermeable and more resistance on the surface you get after the treatment with OBTEGO® P-3.

The silica blend 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.

### Application

OBTEGO® P-3 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. For premium densifying with integrated basic stain protection, we recommend OBTEGO® R-30 (hybrid-lithium silicate).

**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 and free from impurities. To ascertain the consumption make a separate sample area of the same surface. Apply the product with a airless sprayer and a suitable nozzle (0,2 - 0,3 is recommended). Work hand in hand with a second person, which is using a short hair roller (synthetic hairs, e.g. Polyamide) to get a homogenous treatment (optional). In most cases the use of a microfiber mop is also possible instead of the roller. Avoid puddles during application. Remove surplus material after approx. 20 minutes with auto scrubber 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 OBTEGO® P-3 is recommended. Is the product applied between the grinding steps, continue grinding normally 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-3 (e.g. OBTEGO 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/polished surface (application normally at grit 100 or 200: approx. 7 - 15 m<sup>2</sup> / liter.  
trowelled surfaces: approx. 10 - 20 m<sup>2</sup> / 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. 08 02 99 wastes from MFSU of other coatings (including ceramic materials): Wastes not otherwise specified. Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

### Security

OBTEGO® P-3 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: Silicic acid, lithium salt.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]. Causes serious eye irritation. Do not breathe dust/fume/gas/mist/vapours/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. If eye irritation persists: Get medical advice/attention.

Identification marking for transportation:

PU	PU-marking	Transport documents
a	n.a.	n.a.

### Packaging Unit (PU)

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

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.