

## Liquid pore filler (grouting) for cementitious surfaces

### Description

OBTEGO SP-100L is a liquid compound based on various silicates and polymers that is used for grinding, as a pore and crack filler for concrete floors and screeds to close pores, small cavities and cracks (spider web cracks).

### Properties

OBTEGO SP-100L is sprayed in front of the grinding machine on the construction site in order to close the pores of the grinded floor or the cracks bonded with the grinding dust.

Due to the amount of silicates in the product, OBTEGO SP-100L bounds very well into the concrete floor and remains largely flexible thanks to special polymers.

The product does not contain any volatile organic substances and is therefore perfectly suitable for ecological buildings (DGNB, LEED, BNB, etc.).

**Note:** OBTEGO SP-100L hardens by evaporation of water. For better processing, and in the case of absorbent substrates, the floor must be pre-wetted before work begins.

### Application

OBTEGO SP-100L is used on grinded concrete floors/cement screeds, where occurs pores and small cavities after grinding. The product can also be used as a crack filler (craquelure cracks) on power trowelled floors. Depending on the quality of the concrete, pores/small cavities up to 5 mm in size can be closed on grinded floors. If there are a lot of large pores/small cavities, it may be necessary to apply the product twice. For craquelure cracks, a separate grinding guide must be developed depending on the floor.

Fields of application include industrial floors in commercial establishments, market halls, logistics centers, supermarkets and private residential buildings. The product is designed for interior use.

### Processing (grinded floors)

- The surface to be treated is grinded with metal-bonded diamond tools until the aggregates are exposed to the desired extent (up to grit size #80). The grinded surface must be free of oil, grease and other contaminants that act as release agents.
- Before using OBTEGO SP-100L, the floor must be thoroughly vacuumed and washed with auto-scrubber machine, to remove the grinding dust from the pores.
- Before the product is applied to the floor, the surface must be pre-wetted until it appears consistently damp (matt damp). No puddles should form. Pre-wetting prevents, that too much water from the product being removed when applying SP-100L and the material drying too quickly on the surface.
- Shake OBTEGO SP-100L well before use!
- OBTEGO SP-100L is applied with a pressure sprayer directly in front of the grinding machine and grinded with a metal-bonded diamond tool #100/120. The arising grinding dust mixes with the applied product to form a paste and is grinded down into the pores. The grinding depends on the floor, the absorbency and the amount applied. It must be grinded in such a way that there is almost no material residue on the surface after the grinding machine and the pores are closed. Concrete floors with many and large pores, the process may have to be repeated.
- Allow the surface to dry completely (at 20°C approx. 12 hours).
- Grind the surface crosswise with a resin-bonded diamond tool #100-150. To close even the smallest micropores in the floor, we recommend spraying a spray mist of silicate (e.g. OBTEGO P-3) in front of the grinding machine and continue grinding.
- The surface can then be grinded/polished to the desired surface finish.

**Note:** Protect adjacent surfaces against splashes. Clean the tools with water.

### Processing temperature

Avoid direct sunlight during processing. The temperature of the surfaces to be treated should be between 5°C and 30°C. Switch off the under-floor heating if necessary. Avoid direct exposure to moisture until the product has completely hardened.

### Drying time

The drying time is approx. 12 hours. The drying time may vary slightly depending on the ambient temperature and humidity. If an additional impregnation (e.g. OBTEGO R-400) is applied after the last grinding step, the necessary information in the product data sheets must be observed.

### Productiveness

Depending on pores and cavities in the floor, the coverage of the product varies. As a rough guideline level: 7-15 m<sup>2</sup> per liter.

### Storage

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

### Environmental Protection

Not discharged into drains.

Water hazard class: WGK 1 (slightly hazardous to water).

Waste codes/waste designations according to EWC/AVV:

08 02 99: Wastes not otherwise specified. Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

**Safety**

OBTEGO SP-100L is harmless to health after curing. A good ventilation should be provided during and after the processing. Wear protective gloves during the application. Safety data sheet available on request for professional users.

Classification and Labelling according to Regulation (EC) No. 1272/2008

[CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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.

GISCODE: BSW40 Covering agents, water based, alkaline

Identification marking for transport:

PU	PU marking	Transport documents
a	none, no dangerous goods	none, no dangerous goods

**Packaging units (PU)**

a) 20 liter canister

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.