

Waterborne protective sealer for concrete floors

Description

OBTEGO® R-50 is a special waterborne protective sealer based on a blend of silane and polymers.

Properties

OBTEGO® R-50 reduces the penetration of aqueous liquids, grease, oils and other dirt. The product is easy to apply and leads to a semi-matt / satin glossy surface finish. By using a polishing or diamond pad (e.g., diamond polishing pad grit size #3.000) after OBTEGO® R-50 is dried up completely, the surface can be burnished to a higher gloss if desired. The functionality depends on the material and the absorption of the floor surface. Depending on the material and surface treatment, different results can be obtained in terms of stain protection resistance. Depending on the material and surface treatment, it can also lead to different results in the resistance of stain protection.

Basically, there is no or only minimal changing of the surface color (color enhancement). The water absorption will be strongly reduced. The active ingredients are UV-resistant and not non-yellowing.

Scopes of application

OBTEGO® R-50 is to be used on power trowelled or grinded / polished concrete floors, screeds, artificial stone and Terrazzo. Use on self-leveling leveling compounds is basically possible, but should be checked for suitability due to the variety of different floor coverings. Fields of application are e.g., industrial floors in commercial establishments, as well as floor areas in private residential construction. The product is suitable for interior use.

Note: The acid sensitivity on concrete surfaces will be reduced, but it can come to etching marks after long exposure time. (Depending also on the acid).

Processing

The treated surface must be dry (residual moisture < 6%), firm, clean, absorbent, free from oil, grease, releasing agents and any other impurities. At least an intensive cleaning of the surface with an auto-scrubber machine and clear water is required. For a better surface appearance and finish a diamond cleaning step with resin bond diamond tool or diamond grinding pads with grit size #100 or #200 is recommended. To ascertain the consumption, make a separate sample area of the same surface. Apply the product with a pump sprayer (nozzle 0,2 - 0,3 is recommended) in a uniform manner. Work hand in hand with a second person, which is using a short-pile microfiber mop to spread the material to a uniform wetting. Attention must be paid to a uniform appearance (surface appearance). Let the surface dry completely. On highly absorbing surfaces a second application is required.

Note: Too much material excess can lead to an inhomogeneous appearance and to an orange peel after burnishing. Clean equipment with water.

Processing temperature

Avoid direct solar radiation during processing. The surface temperature should be between 10 ° C and 25 ° C (50 – 77 F). Floor heating maybe turn off. Avoid direct exposure to moisture until it has cured completely.

Drying time

The drying time is 1-2 hours. The drying time may vary depending on the ambient temperature, humidity and absorption of the floor.

If the surface is polished to a higher gloss with polishing or diamond pads, OBTEGO® R-50 must be completely dried up. If you are unsure, plan more drying time.

If the floor must be temporary protected, use only diffusion open coverings and also only after the floor is completely dried. Recommendation: Diffusion open fleece (non-woven fabric). If necessary, to protect more use additional wooden hardboards/fibreboards on top or generally with diffusion-open protective and laying floor such as Hammerfest from the company "Protect & Cover" or comparable.

Productiveness

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

polished concrete: approx. 30 - 50 m² / liter
 trowelled concrete: approx. 10 – 30 m² / liter

Storage

Protect from frost. Keep closed container in a cool, dry place. Opened containers should be used 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

Low VOC value. OBTEGO® R-50 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 used in a spraying application.

Labelling according to Regulation (EC) No. 1272/2008 [CLP].
Safety data sheet available on request.

Identification marking for transportation:

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

Packaging Unit (PU)

10 liter PE canister

(Larger containers and barrels 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 spot.