

Waterborne protective sealer for concrete floors

Description

OBTEGO R-50 is a special waterborne protective sealer based on a blend of silane/ siloxane 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. If a matte surface is desired, a matting agent is available for OBTEGO R-50. 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.

Application

OBTEGO R-50 is to be used on power trowelled or grinded concrete floors, screeds, artificial stone and Terrazzo. Use on self-levelling compounds is basically possible but should be checked for suitability due to the variety of different floor coverings. Primary areas of application are exposed screeds in private residential construction and public buildings. This surface protection is not recommended for surfaces subject to very heavy mechanical stress (e.g., it is not suitable for garages). The product is suitable for indoor use.

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

Processing

The treated surface must be dry (<4CM-%, TRAMEX ≤ 6%-M), 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 roller (e.g. nylon/ polyamide 8 mm pile length) to spread the material to a uniform wetting. Attention must be paid to a uniform appearance (surface appearance). Let the surface dry completely. The second application of material is carried out in

the same way as the first. Depending on the surface absorption the material can be again rolled or wiped with a short-pile microfiber mop. Wiping with mop is recommended for surfaces with low absorbency.

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 sun 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 treated surface is polished to a higher gloss with polishing or diamond pads, OBTEGO® R-50 must be completely dried up before using a burnisher. Depending on the temperature and humidity, this can take several hours or until the next day.

If the floor must be temporary protected, use only diffusion open coverings and also only after the floor is completely dried (recommended value: 48-72 hours). 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. Reference value:

grinded concrete: approx. 10 - 15 m² / liter; (in two coats)

trowelled concrete: approx. 12 - 20 m² / liter; (in two coats)

open-pored floors such as anhydrite, magnesite, etc.: approx. 5 - 10 m²/liter; (in two coats).

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.

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

Safety

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 use in a spraying application.

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].

Contains KATHON CG. May produce an allergic reaction.

Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

GISCODE: BSW20 Covering agents, water based, low-preservatives

Identification marking for transport:

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

Packaging Unit (PU)

a) 10 liter PE 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.