

Pre-treatment for cementitious surfaces

Description

OBTEGO® P-10 is a waterborne pre-treatment (impregnation) based on a fluorocarbon oligomer which gives an excellent water- and oil repellent effect.

Properties

OBTEGO® P-10 reduces the penetration of aqueous liquids, grease, oils and other dirt and is basically used as pre-treatment before applying OBTEGO® R-400. The effectiveness depends on the material and absorption of the surface. Depending on the material and surface treatment, it can also lead to different results in the resistance of stain protection. Application on polymer modified concrete/screed as well as on design floors and other self-leveling compounds is limited (check for suitability).

Basically, there is no or only a slightly changing of the surface appearance (no hue deepening). The water absorption will be strongly reduced, but the permeable to water vapour will be only marginally affected. The active ingredients are UV-resistant and not going yellowing.

Scopes of application

OBTEGO® P-10 is applicable to nearly all cement bounded floors, artificial stone and Terrazzo. Fields of application are e.g. industrial concrete floors in commercial establishments, logistics- and shopping centers, supermarkets and trowelled design floors at indoor and outdoor areas. For highly absorbent surfaces or if no hue deepening effect is required, it's basically recommended to make a pre-treatment with OBTEGO® P-10.

Note: The acid sensitivity of the surfaces will still exist, but will be reduced. If afterwards OBTEGO® R-400 will be applied, the hue deepening effect from R-400 will be reduced. How much the decrease of the hue deepening effect will be reduced, depends on the flooring material itself as well as from the absorption of the surface. A sample area is therefore always recommended.

Processing

The treated surface must be dry (residual moisture < 4 CM%) and free from any soilings. Basically, a diamond cleaning step and an afterwards fine cleaning with auto-scrubber machine is highly recommended before starting the treatment. Flooring systems with have a disposition to efflorescence a multiple wet cleaning with a auto-scrubber is necessary. To ascertain the consumption, make a separate sample area of the same surface. Apply the product homogenous with a suitable pressure/pump sprayer onto the floor. Work hand in hand with a second person, which is using a short-pile roller (synthetic pile, e.g. polyamide 8mm) to get a homogenous treatment. The surface should be saturated with the material, but not flooded. After approx., 5-10 min. the material penetrates completely into the surface. Avoid paddles! On polished or very dense floors, after drying some residues of the applied material can occur. In that case use a single disc machine and a white polishing pad to buff the surface and remove such residues. For absorbent surfaces a double treatment is recommended. Drying time of the product is 12-24 hours. Afterwards apply OBTEGO R-400 as specified by the manufacturer (see also technical data sheet).

Note: Adjacent surfaces must be protected against splashes. Remove surplus material film before drying up. Clean equipment with water. Before applying OBTEGO® R-400, make sure that the surface treated with P-10 is sufficient in application and functionality. This can be verified with a simple water test. Either apply on some spots over the area a few water drops or wipe with a wet mop over the pre-treated surface. Thereby, the floor should be not get wetting immediately (become darker). In case of a wetting after a few seconds, either there is too less P-10 applied to the surface, the floor is not a 100% cementitious floor or there is any other problem exist (e.g. if the floor was already treated in the past with an impregnator).

Processing temperature

Avoid direct solar radiation during processing. The surface temperature should be between 10 °C and 30 °C (50 – 86F). Floor heating must be turn off. Avoid direct moisture until the development of water- and oil repellent effect.

Drying time

The water- and oil repellent effect develops after 2-3 hours, the full effect occurs after 12-24 hours. You can walk carefully on OBTEGO® P-10 treated surfaces approximately after 3 hours.

If the floor must be temporary protected, use only diffusion open coverings and also only after the floor is completely dried. Recommendation: Diffusion open painter's fleece (non-woven fabric). If necessary to protect more use additional wooden fiberboards on top or generally use e.g. "Hammerfest" coverings from the German company Protect & Cover.

Productiveness

Depending on the absorption of the surface, following values can be assumed. A second application halved the coverage. Reference value:

low absorbent surface: approx. 20 - 40 m²/liter
 absorbent surface: approx. 10 - 20 m²/liter

Storage

Shelf-life in cool, dry ventilated areas: Closed container is about 12 months. Already opened cans should be used up as soon as possible.

Environmental Protection

The product is free of hydrocarbons. Not empty into drains. WGK 1 (low water endangering).

Waste codes/waste designations according to EWC/AVV. Waste from coatings (including ceramic materials): Product: 08 02 99 (wastes not otherwise specified); packing: 15 01 02 (plastic packaging). Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

Security

OBTEGO® P-10 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.

Ingredients: fluorocarbon oligomer

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 Orange, sweet, ext.. May produce an allergic reaction. Safety data sheet available on request. Do not breathe dust/fume/gas/mist/ vapours/spray. Use only outdoors or in a well-ventilated area. 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.

Identification marking for transportation:

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

Packaging Unit (PU)

10 liter PE canister

(Bigger 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.