

Dekguard PU

Two component aliphatic polyurethane protective coating for concrete and steel structures

Uses

Dekguard PU provides an easily cleaned chemical and UV resistant protective coating, and suitable for external protection of concrete and steel structures.

Advantages

- Durable : Low maintenance costs
- Non yellowing : Will not yellow on exposure to UV rays.
- Hygienic : Seamless surface, easily cleaned
- Impermeable: Excellent resistance to chemicals and gases
- Direct coating : It can directly be applied to a sound and good concrete

Description

Dekguard PU is a two component, pigmented, aliphatic polyurethane coating possessing good resistance to long term exposure of UV rays.

Technical Support

Fosroc offers technical support and service to specifiers and contractors as well as on-site assistance.

Properties

Pot life at 30°C	Min. 3 hours
Mixed density	1.30 ± 0.03 g/cc
Solar Reflectance Index (SRI) Solar Direct Reflectance Emissivity (Tested as per ASTM E 1980-19) (The above stated properties is for Pure white colour shade)	104 >82% >90%
Recoat time at 30°C	2 - 4 hours
Initial cure at 30°C	16 hours
Final cure at 30°C	5 days
Flash point	35°C
Bond strength to concrete (ASTM D4541)	> 1 MPa
Bond strength to Steel with Nitozinc primer (ASTM D4541)	> 1 Mpa

Application instructions

Surface preparation

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitence free and free from any traces of shuttering, release oils and curing compounds.

All surfaces should then be grit blasted to remove all foreign matter and open up blow-holes, and provide a suitable key for Dekguard PU. All blow holes and imperfections should be filled with a suitable epoxy putty. If the concrete surface is porous, the surface should be primed with Nitoprime 25. In case of good concrete, Dekguard PU can directly be applied to the substrate in two coats after commencing a proper surface preparation and cleaning. In case of steel substrates, the surface to be primed with Nitozinc Primer.

Mixing

The individual components should be thoroughly stirred before mixing them together. The components should then be mechanically mixed together for atleast 3 minutes using a slow speed (400 - 500 RPM) drill machine attached with a mixing paddle.

Application

Apply Dekguard PU with a nylon brush, or a flat pile felt roller, to the prepared substrate at a wet film thickness of 80 microns (40 microns DFT) . Allow Dekguard PU first coat to dry for 2-4 hours at 30°C and then apply the second coat. When applying on Polyurea surface, Dekguard PU top coat should be applied within 12 hours of application. After which, Polyurea surface should be re-activated by using a wipe of Fosroc Nitoprime 150 and allowed to dry prior to application of Dekguard PU

Curing

This coating will become tack free in approximately 2 - 4 hours and be fully cured in 5 days.

Number of coats

Two finish coats are recommended unless used as a top coat for freshly applied epoxies.

Cleaning

Clean tools and equipment immediately after use with Nitoflor Sol. Wash hands and skin with soap, or an industrial hand cleaner.

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Limitations

Minimum ambient surface and material temperature must be between 10 to 40°C. For applications outside this range, contact Fosroc for advise. Application of the product should be always on dry substrates. Moisture in the substrate can lead to pin holes and blisters in the coating.

Storage

Shelf life

Dekguard PU has a shelf life of 6 months when stored under normal warehouse conditions in unopened containers. Exposure to moisture greatly reduces the shelf life, particularly that of the hardener.

Estimating

Packaging

Dekguard PU is supplied as base and hardner in preweighed Quantities. The material is available in 20 L and 4L packing.

Coverage

The theoretical coverage is 10 sq.m /ltr/coat at 30 - 40 microns DFT. However practical coverage may vary depending on the porosity of substrate, application thickness etc.

Precautions

Health & Safety

Rubber gloves and/or barrier creams, protective clothing, goggles and respirator should be worn. Provide sufficient mechanical and/or local exhaust ventilation to maintain easy working conditions.



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