

DEKOSIL V

Product for impregnation, curing and protection of new and old concrete surfaces. Compliant with EN1504-2

FIELD OF APPLICATION

It is used as a product for curing and protection of fresh concrete surfaces made of polished or stamped concrete, natural stone surfaces, concrete elements – concrete pipes, concrete paving elements, pavement curbs, old concrete surfaces, concrete slabs. Dekosil V contains nanoparticles which can easily penetrate concrete micropores and form a thin coat. Thus, the product ensures optimal water retention in the fresh concrete's hydration process and protects the concrete surface, reduces the possibility for micro-cracks and improves the surface appearance. As an impregnator, Dekosil V additionally reinforces the surface to which it is applied and protects it against weather impacts, ice, salts and low-grade chemical aggression. Thus, it reduces the possibility for damaging and staining of the surface, dusting and stains resulting from oil, liquid and food products. Concrete and other mineral surfaces treated with Dekosil V are easy to maintain. It is suitable for internal and external use.

PROPERTIES

- One-component, white, water-based, ready-made liquid
- Increases chemical and mechanical resistance of surfaces
- Improves the substrate's surface stability
- Provides a better decorative surface appearance
- Water-repellent
- Resistant to gas and motor oils
- Resistant to food product stains
- Easy to apply
- Bacteria resistance
- Wear-and-tear resistant
- Solvent-free and environment-friendly

TECHNICAL FEATURES

Properties	Method	Declared value
Appearance		White liquid
Density	EN ISO 811-1	0.95-1.00g/cm ³
Coat drying time		15-30min
Period between two coats		30-45min
Curing of concrete and use		45min after applying the last coat
Wear-resistance	EN 13892-3	Depending on the substrate's structure, Dekosil V increases the resistance by 20%
Mechanical load		After the concrete has hardened (7-14 days)

METHOD OF APPLICATION

Dekosil V is a ready-made liquid. There is no need for prior dissolution in water.

Substrate preparation:

Old concrete substrate:

Dekosil V can be applied to old, completely hardened concrete surfaces levelled with a power trowel (power float) or treated with Poding K. The substrate should be sound and clean. Laitance and mortar and colour residues should be removed either mechanically or by using chemical agents.

In case of substrate damages, they should be repaired with appropriate repair materials. The substrate to which Dekosil V is to be applied should have homogeneous composition in order to achieve even absorption of the material into the substrate.

New (fresh) concrete substrate:

Dekosil V can be applied immediately to fresh concrete substrate, concrete levelled with a power trowel (power float) or freshly applied coating of Poding K.

Application:

Dekosil V is applied to new (fresh) concrete substrates after the concrete substrate surface has been dried, in most cases 4-6 h after concrete placement. Material is applied in two to three coats with a brush, short pile wool roller or by spraying several coats (at least two) until desired appearance is achieved.

The material should be evenly spread so that it penetrates evenly and forms a thin protection coat. Dekosil V should be applied at a room temperature and a substrate temperature between 5°C and 30°C, protected against exposure to direct sunlight and wind in order to avoid bubbles and blur. Partially dried parts should not be additionally treated to avoid roller marks. Impregnation with Dekosil V of old and untreated concrete substrates can result into streaks after it has dried because of uneven absorption of the material into the substrate. After being applied, treated surfaces should be protected against strong wind, rain and freezing. Substrates treated with Dekosil C can be exposed to mechanical load after the concrete has hardened, from 7 to 14 days.

CONSUMPTION

Application with a brush or a paint roller:
first coat: 0.09 to 0.10 kg/m²
second coat: 0.05 to 0.06 kg/m²

PACKAGING

In plastic cans of 5kg and 20kg.

STORAGE

In original, closed packaging, in dry rooms, at temperature between 5°C and 30°C, protected from exposure to direct sunlight and freezing. Shelf life: 12 months.

Health hazard: Avoid contact of the product with skin or inhalation of the material. In case of accidental contact, if skin is contaminated with the material, the contaminated areas should be immediately washed with water and soap. If the material splashes into the eyes, immediately rinse the eyes with plenty of water and seek medical advice. Wear protective gloves, clothing, and protection for your eyes and face. Further information is provided in the safety sheet of the product. **Fire:** Solvent-P is flammable. Further information is provided in the Safety sheet of the product. **Cleaning and discarding:** The old and used packing should be discarded in accordance with local guidelines and regulations for that type of waste.