

# DEKOSIL V

*Impregnation, curing and protection of new and old concrete substrates  
In compliance with EN 1504-2*

## FIELD OF APPLICATION

It is used for curing and protection of flattered and stamped concrete, stone, concrete products and elements, concrete pavements, sidewalk edges, old concrete surfaces, concrete plates. Dekosil V has nano-particles that penetrate into the micro-pores of the concrete and form thin coating that cures the hydration process, protects the concrete surface, reduces the percent of micro-cracks and improves the final outlook of the surface. Used as impregnation Dekosil V form the top layer of the substrate and it protects it of atmospheric influences, ice, salts and mild chemical aggression. The surface with Dekosil V has better resistance to damages, soiling, dusting and spotting. Dekosil V improves the maintenance of the concrete and mineral surfaces. It is suitable for use for inside and outside surfaces.

## PROPERTIES

- Water based, one component white liquid, ready to use;
- It improves the chemical and mechanical resistance of the surfaces;
- It improves the top layer of the substrate;
- Watertight;
- Resistant to gasoline and motor oils;
- Resistant to food products spots;
- Simple application;
- Bacterial resistance;
- Stable when exposed to atmospheric influences and aging;
- Doesn't contain solvents and is environmental friendly.

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	visual	white liquid
Density (at 20°C)	EN ISO 2811-1	0,95-1,00g/cm <sup>3</sup>
Drying time for layer	-	15-30min
Concrete curing	-	~ 2-6h after concreting depending to the substrate structure, applied Dekosil V
Abrasion resistance	EN 13892-3	improves the abrasion resistance up to 20%
Exposure to mechanical load	-	after setting the concrete ( not earlier than 7-14 days)
Use, when applied as impregnation of old concrete substrates	-	45min after the application

## METHOD STATEMENT

Dekosil V is ready to use liquid. It is not necessary to dilute it with water.

## SUBSTRATE PREPARATION

### Old concrete substrate

Dekosil V can be applied over old, completely firm concrete surfaces, flattered with floating machines or with final flooring of Poding K. The substrate should be sound and clean, cement slurry, mortar or paint on the surface should be cleaned mechanically or using chemicals. Existing damages of the substrate should be

repaired using suitable materials for reconstruction. The substrate for Dekosil V should have homogenous structure to ensure equal penetration of the product into the substrate.

New (fresh) concrete substrate

Dekosil V can be applied right after the concreting, over fresh concrete substrate, substrate flattered using floating machine or over unset flooring of Poding K.

**APPLICATION**

According to the concrete recipe and the ambient exposures during the concreting, apply Dekosil V after the top layer of the concrete is dry, approximately after 2-6h. Apply Dekosil V in one layer using brush, fur roller or by spraying. Apply it equally on the entire surface to penetrate and form thin protective film. To prevent bubbles and matting, apply Dekosil V while the air and substrate temperature is between 5-30°C. Protect the surface after the application of direct sun and wind exposure. Do not overpaint almost dry parts to prevent visual roller marks on the surface. Impregnation with Dekosil V on old and untreated substrate can result with unequal absorption of the material into it and ununiformed outlook.

After the application, protect the surfaces with Dekosil V of wind, rain and freezing.

The substrates with Dekosil V can be exposed to mechanical load after the concrete is set enough to carry the load, but not earlier than 7-14 days.

**CONSUMPTION**

according to the porosity of the substrate - 0.05-0.15kg/m<sup>2</sup>

**PACKAGING**

Plastic cans: 5 and 20 kg

**STORAGE**

In the original, closed packaging, in dry rooms, at temperature between 5°C and 30°C. The product must not be exposed to direct sun and freezing.

Health hazards: Avoid contact of the product with skin and eyes, as well as direct inhalation. In case of accidental contact of the product with the skin, remove it with water and soap. If the material splashes into the eyes, immediately rinse the eyes with plenty of water and seek medical advice. If swallowed, seek medical advice.

Fire: Releasing of dangerous substances in reaction to fire is not declared.

Cleaning and disposal: Loose residues of Dekosil V should be cleaned with water. The old and used packaging should be disposed of in accordance with the local rules and regulations for that type of waste.

We recommend that the method of application and the necessary quantities be adjusted to the conditions of the building, as well as mandatory use of appropriate equipment.

PROTECTIVE COATINGS