

# DEKOSIL

*Transparent methacrylate based coating (lacquer) for impregnation of cement substrates and stone*

*In compliance with EN 1504-2: 2004: 5.1 (C)*

## FIELD OF APPLICATION

Protective final coating for floor and wall substrates with glossy and wet effect. It is used as lacquer that impregnates and improves the physical resistance of cement substrates and stone. As final coating for concrete substrates with closed final structure like Poding K or stamped concrete, that are not exposed to atmospheric influence, exposed to moisture, low temperatures and unfreezing salts. Dekosil form film that is not vapour permeable and the closed moisture in the substrate result with peeling the coating.

## PROPERTIES

- one component transparent coating;
- it closes the final structure of the substrate and improves the physical and mechanical characteristics of the substrate;
- excellent adhesion;
- watertight;
- improves the abrasion resistance;
- low consumption;
- easy to apply,

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		transparent viscous liquid
Density (at 20°C)	EN ISO 2811-1	0,92-0,98g/cm <sup>3</sup>
Adhesion to the substrate	EN 1542	≥ 2,0MPa
Water absorption	EN 1062-3	w≤0,1kg/m <sup>2</sup> h <sup>1/2</sup>
Abrasion resistance	EN ISO 5470-1	< 3000mg
Impact resistance	EN ISO 6272-1	class II ≥10Nm
Curing time on 20°C		
Touch dry	internal method	60min
Hard dry	internal method	150 min
Substrate and air temperature during the application	-	5-35°C
Relative air humidity	-	< 70%
Mechanical use for walking and for heavy transport, on 20°C	-	after 3 days
Chemical use	-	after 7days

## METHOD STATEMENT

### SUBSTRATE PREPARATION

The substrate for application of Dekosil should be sound, dry and clean, without grease, dust, condensate and unstable parts, with structural moisture lower than 7% and it must be resistant to solvents. Air and substrate temperature should be between 5-35°C and the relative air humidity lower than 70%.

#### New concrete substrate

Concrete must be cured at least 28 days, the compressive strength must be over 25MPa and the structural substrate moisture must be lower than 7%. Cement laitance, mortar, stains of paint and grease must be removed mechanically or with detergents or special agents. If detergents or special agents are used, the substrate should be thoroughly washed with water. Finally the substrate should be cleaned of dust using industrial vacuum cleaner.

#### Old concrete substrate

The substrate should be sound and clean to achieve excellent adhesion and must have a minimum compressive strength of 25 MPa with structural moisture lower than 7%. Cement laitance must be removed mechanically. Penetrated grease and dirt in the substrate should be removed with detergents or special agents and then the substrate should be thoroughly washed with water. All cracks and damages of the substrate must be repaired using suitable materials. Finally, the substrate should be dusted with an industrial vacuum cleaner.

#### Stamped concrete

Stamped concrete must be cured at least 28 days, the compressive strength must be over 25MPa. Powder and coating oils must be thoroughly clean from the surfaces. These funds make it impossible for Dekosil to connect with the substrate. Before its application, the surface should be thoroughly cleaned with dilute acid and then thoroughly washed with water. Dekosil should be applied at least 24 hours after the removal of the powder, and substrate moisture must be lower than 7%. Dekosil is a vapour-permeable lacquer and if it's applied outside or on larger surfaces, a vapour-permeable waterproofing is required under the concrete substrate.

### APPLICATION

#### As impregnation

According to the porosity of the substrate, dilute Dekosil using 5-15% Rastvorovac P (Solvent P). Apply it using brush, fur roller or by spraying in one layer.

#### As lacquer

Apply Dekosil in one layers using brush, roller or by spraying, using airless pump. The product can be diluted with 5% Rastvorovac P (Solvent P). Protect surfaces coated with Dekosil of wind, rain and dust 12h after the application.

## CONSUMPTION

Used as impregnation, for one layer- 0.15-0.20 kg/m<sup>2</sup>

Used as coating, for one layer- 0.15-0.30 kg/m<sup>2</sup>, depending of the porosity of the substrate.

## CLEANING

Clean tools and equipment right after the application, using Solvent P.

## PACKAGING

Metal cans: 3kg and 15 kg

## STORAGE

In the original, closed packaging, at temperature between 5°C and 35°C. The product must not be exposed to direct sun and freezing. Shelf life: 9 months.

## CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 17 GKDA001/6 EN 1504-2:2004 <b>DEKOSIL</b> Coating for surface protection and improved physical resistance of concrete	
Adhesion strength by pull-off test	<b>≥ 2,0 N/mm<sup>2</sup></b>
Capillary absorption and permeability to water	<b>w &lt; 0,1 kg/m<sup>2</sup>·h<sup>0,5</sup></b>
Abrasion resistance	<b>&lt; 3000 mg</b>
Impact resistance	<b>Class II ≥ 10 Nm</b> <b>After loading, no cracks, no delamination</b>
Reaction to fire	<b>Class F</b>
Dangerous substances	<b>No performance determined</b>

PROTECTIVE COATINGS

**Health hazards:** Avoid contact of the product with skin and eyes, as well as direct inhalation. In case of accidental contact, the product should be removed immediately with dry towel or mildly wetted towel with Solvent P. Then, wash the spot with pure water and soap. If the material has been splashed into eyes, immediately rinse it with pure water and call for medical help. Ventilate the room where you use resins and solvents.

**Fire:** The product is not flammable.

**Cleaning and disposal:** Loose residues of Dekosil are cleaned with Solvent P. The old and used packing should be discarded in accordance with the local relevant regulations.

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