

# FASIL V

*Silane-based solution, solvent free, used for hydrophobic impregnation of concrete substrates*

*Compliant to EN 1504-2:2004 / 1.1(H); 2.1 (H); 8.1 (H)*

## FILED OF APLICATION

Used for hydrophobic impregnation of outdoor or indoor concrete surfaces. Fasil V can be applied on existing floor or wall concrete surfaces, but also can be used for production of precast concrete elements. Hydrophobic impregnation causes a change in the surface tension of the concrete substrate, thus forming a water repellent surface that prevents penetration of water and chemical aggression (salts, chlorides and sulfates).

## PROPERTIES

- Water-repellent surfaces;
- Vapour permeable;
- Waterproof;
- Does not change the surface appearance;
- High resistance to alkalis ;
- Increases the resistance of the treated surfaces of ice and salt;
- Reduces capillary absorption of water on concrete sections;
- Prevents penetration and migration of chlorides;
- Prevents the occurrence of efflorescence;
- Easy and simple application with brush/roller or spray;

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	Visual	White liquid
Density	-	(0.96 ÷1.02) g/cm3
Depth of carbonation penetration	EN 13578 EN 14630	Klasa I : < 10 mm
Water absorption	EN 13580	< 7.5% (Compared with untreated samples)
Resistance to alkali	EN 13580	< 10% (After immersion in alkaline solution )
Drying test	EN 13579	Class I : > 30 %

## METHOD OF STATEMENT,

### SUBSTRATE PREPARATION:

The concrete substrate that needs to be treated with Fasil V should be clean, dust-free, without residual paint and oils. The cleaning of the substrate should be done with air or water under pressure, or by blasting. It is recommended that the application of Fasil V to be carried out on a dry surface (max. 6% of surface humidity ). If there are cracks on the substrate, they need to be repaired.

## APPLICATION:

The application of Fasil V is done with a brush, roller or by spraying. The material is applied in one working procedure till the surface is saturated without interruption of the application, until the entire surface is treated. After the material is dried, additional layers should not be applied. Avoid application of large amount of material on the surface.

For serial production of concrete paving elements, Fasil V can be applied by immersing in a pool filled with Fasil V for duration of 15-20 seconds. Fasil V should not be applied if the surface temperature is below +5°C and above 35°C, or if rain and strong wind are expected within 3 hours after the material has been applied. Before application, it is necessary to mix the material.

## CONSUMPTION :

Consumption depends on the porosity of the substrate. The usual consumption for one layer is between 0,125 - 0,25 kg/m<sup>2</sup> for concrete substrates and 0,3 - 0,5 kg/m<sup>2</sup> for very permeable surfaces and pave elements. Trial application should be done on all surfaces for determining the real consumption.

## CLEANING :

The tools and equipment should be cleaned with water, immediately after use.

## PACKAGING

Plastic bottle: 1.0 kg;  
Plastic cans: 5 and 20 kg;  
Drums: 200 kg  
Containers: 1000 kg

## STORAGE

In original, closed packaging, in dry rooms, at a temperature of 5°C to 30°C, protected from direct exposure to sun and freezing. Shelf life: 9 months

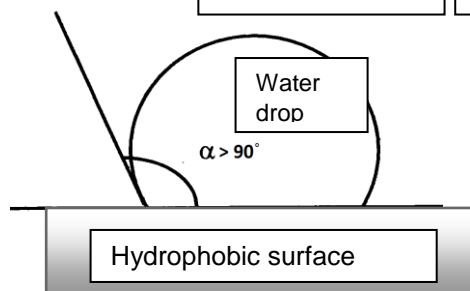


Hydrophobic impregnation



Concrete element treated with Fasil V

Concrete element not treated with Fasil V



## CE MARKING

<b>CE</b> <b>2032</b>	
<b>ADING AD Skopje</b> <b>Novoselski pat (ulica 1409) br. 11, 1060</b> <b>Skoplje, Republic of North Macedonia</b> <b>18</b> <b>GLCA001/4</b>	
<b>EN 1504-2:2004</b> <b>FASIL V</b> <b>Hidrophobic impregnation based on silane emulsion</b> <b>without solvents</b>	
<b>Depth of penetration :</b>	<b>Class I &lt;10mm</b>
<b>Water absorption and</b>	<b>&lt; 7.5% compared with</b> <b>untreated specimen</b>
<b>Resistance to alkali :</b>	<b>&lt;10% After immersion</b> <b>n alkali solution</b>
<b>Drying rate for hydrophobic impregnation :</b>	<b>Klasa I &gt;30%</b>
<b>Dangerous substances :</b>	<b>NPD</b>

PROTECTIVE COATINGS

**Health hazards:** Fasil V does not contain toxic materials. Nevertheless, avoid contact of the product with skin and eyes and avoid swallowing. In case of contact with skin or eyes, rinse it immediately with clean running water. If swallowed, seek medical assistance. When working (especially by spraying), protective equipment (glasses, mask and gloves) must be used. Additional information is provided in the Safety Data Sheet of the product.

**Fire:** Fasil V is a non-flammable liquid. Additional information is provided in the Safety Data Sheet of the product.

**Cleaning and disposal:** Loose residues of Fasil V should be cleaned with water. Old and used packaging should be disposed of in accordance with local rules and regulations for that type of waste. Additional information is provided in the Safety Data Sheet of the product.