



## Technical Data Sheet Art. No. 0639

# Funcosil BI

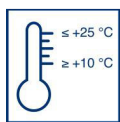
Clear, hydrophobizing impregnation agent for concrete



Solvent based



For use outdoors



Working temperature  
 $\leq +25\text{ °C}$   
 $\geq +10\text{ °C}$



Brush/roller / low pressure spraying



Total application rate  
300-1000 ml  
Total  
1m²



Store frost-free and cool protected from moisture in closed containers



Shelf-life  
24 Month



### Range of use

- Driving rain protection for facades
- Concrete, exposed aggregate concrete, fibrated cement
- Protects against the penetration of de-icing salt
- Protects against damage caused by frost and de-icing salt
- For use outdoors

It must be ensured that water cannot migrate behind the hydrophobized zone.

Funcosil BI is not suitable for use if there are adjacent, solvent-sensitive components such as polystyrene (core insulation of bonded thermal insulation systems), bitumen or areas that contain these components.

### Property profile

- Improves resistance to frost/de-icing salt
- Water repelling
- Water vapour diffusion-open
- Good penetration capacity
- UV resistant
- Alkali resistant

### Characteristic data of the product

#### Characteristic data of the product in the packaged state

Carrier material:	de-aromatised hydrocarbons
Active ingredient:	silanes/siloxanes
Active ingredient content:	approx. 20 % by mass
Flash point:	approx. 40 °C
Density (20 °C):	approx. 0.78 kg/l
Viscosity:	approx. 44 sec. in a DIN 2 cup
Solidification point:	< -15 °C

- Excellent long-term effect
- Solvent based

that cannot be prevented by impregnation.

### Substrate

#### Requirements:

Absorption of the impregnation agent is a prerequisite for the best possible effect; this will depend on the respective pore volume and moisture content of the building material.

The substrate must be as clean, dust-free and dry as possible.

If the substrates contain salts that damage the building material, a quantitative salt analysis must be carried out.

High concentrations of harmful salts can lead to severe damage

#### Preparation:

Structural defects such as cracks, cracked joints, defective connections, rising damp and hygroscopic moisture must be remedied before impregnation is carried out.

Necessary cleaning measures should be as gentle as possible, e.g. by spraying with cold or warm water or steam cleaning; stubborn soiling should preferably be removed with the rotec Low Pressure Blaster (5235) or Remmers cleaning products [e.g. Facade Cleaner Paste (0666), Clinker Cleaner AC (0672), Combi WR (0675)].

**Adjacent surfaces:**

Building elements and materials that should not come in contact with the impregnation agent should be protected by suitable means.

**Directions**

Apply the impregnation agent under gravity in a flow coating procedure generously enough (avoid misting) so that a 30-50 cm long film of liquid runs down the surface of the building material.

Flow coat in sections horizontally from the top to the bottom and work in immediately with a wide brush. Repeat this process (wet-in-wet) until the impregnation agent is no longer absorbed. When applying to surfaces that do not permit spray application, use a well saturated brush or roller. Protect freshly impregnated surfaces from driving rain, wind, sunshine and condensation. Remove excess impregnation agent within 1 hour with V 101 Thinner.

**Working temperature:**

+10 °C to +25 °C

**Possible system products**

BFA (0673)

**Tools, cleaning**

All solvent resistant, low pressure, conveyor and spraying equipment as well as liquid pumps are suitable for use; brushes can be used in floor areas.

Tools must be clean and dry. Clean tools after use and before longer pauses with V 101 Thinner.

**Notes****Testing the effectiveness**

Water absorption on mineral building materials can be determined with the aid of the Funcosil Test Plate or Funcosil Test Tube developed by Professor Karsten (Funcosil Facade Testing Kit, Art. No. 4954).

A test of effectiveness can only be carried out at the earliest 6 weeks after application.

**Packaging, application rate, shelf-life****Packaging:**

5 l and 30 l tin cans and 200 l drums

**Application rate:**

Concrete:  
Approx. 0.3 - 0.5 l/m<sup>2</sup>  
Light-weight concrete:  
Approx. 1.0 l/m<sup>2</sup>  
Fibrated cement:  
Approx. 0.3 l/m<sup>2</sup>

Impregnation agent requirements for calculation and tender should be determined on a sufficiently large trial area (1-2 m<sup>2</sup>). The effectiveness of the impregnation can also be checked on this surface.

**Shelf-life:**


At least 24 months in original, unopened containers stored cool and dry.

Once containers have been opened, use the contents as soon as possible.

**Safety, ecology, disposal**

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

**Personal protective equipment is required for spraying procedures. Respiratory protection with a combination filter at least A/P2 (made by e.g. Draeger). For suitable protective gloves, see Safety Data Sheet. Wear closed work clothes.**

	
Remmers GmbH Bernhard-Remmers-Str. 13 D – 49624 Lönningen 09 GBI F 006-2	
<b>EN 1504-2:2004</b> <b>0639</b> Surface protection product – hydrophobizing impregnation	
Penetration depth	class I: < 10 mm
Water absorption and alkali resistance	absorption ratio < 7,5 % compared with the untreated specimen < 10 % after immersion in alkali solution
Drying rate	class I: > 30 %
Loss of mass after alternating frost/de-icing salt loads	the loss of mass of the surface of the impregnated specimen must occur at least 20 cycles later than that of the not impregnated specimen.
Dangerous substances	NPD

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