



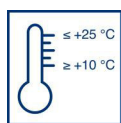
Technical Data Sheet  
Art. No. 0704

## Funcosil C40

Hydrophobizing impregnation agent in cream form on a silane base



For use outdoors



Working temperature  
≤ +25 °C  
≥ +10 °C



Brush/roller /  
airless/airmix  
spraying



Total application  
rate



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



Shelf-life

### Range of use

- For deep hydrophobization of concrete and reinforced concrete in buildings
- For old, carbonated concrete surfaces as well as lime and cement renders
- For use outdoors

It must be ensured that water cannot migrate behind the hydrophobized zone. Funcosil C40 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

- Improved resistance to frost/de-icing salt
- Water repelling
- Water vapour diffusion-open
- Good penetration capacity
- Can be easily and exactly applied without any loss
- Early rain tight approx. 60 minutes after application
- UV resistant
- Alkali resistant
- Excellent long-term effect

0704 Funcosil C40\_11.16

### Characteristic data of the product

Carrier material:	water
Active ingredient:	silanes/siloxanes
Active ingredient content:	approx. 40 % by mass
Density:	approx. 0.83 kg/l
Flash point:	> 61° C
Appearance:	milky, white, creamy

### 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 that cannot be prevented by impregnation.

#### 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

**Working temperature:**  
+10 °C to +25 °C

Apply the impregnation agent with a lambskin roller/wide brush lengthwise and crosswise or spray on with airless spraying equipment.

Protect freshly impregnated surfaces from driving rain, wind, sunshine and condensation.

Remove excess impregnation agent within 1 hour with V 101 Thinner.

**Possible system products**

BFA (0673)

**Tools, cleaning**

Long-hair lambskin roller, brush  
Airless nozzles:  
40° spraying angle  
Bore 0.021 inch  
Max. 60 bar spraying pressure

Tools must be clean and dry.

Clean tools after use and before longer pauses with water.

**Notes**

**Testing the effectiveness**

Water absorption on mineral building materials can be determined with the aid of the Funcosil Test Plate 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 15 l plastic buckets

**Application rate:**  
Depending on porosity: Approx. 0.2 - 0.5 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 12 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.**

	
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<b>EN 1504-2:2004</b>  0704  Surface protection product – hydrophobizing impregnation	
Depth of penetration	class I: < 10 mm
Water adsorption and resistance to alkali	absorption ratio < 7,5 % compared with the untreated specimen < 10 % after immersion in alkali solution
Drying rate for hydrophobic impregnation	class I: > 30 %
Loss of mass after freeze-thaw salt stress	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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