Technical Data Sheet
Art. No. 0710

Funcosil IC

Water based, solvent-free impregnation cream on a silane base

Water based | For use indoors and outdoors | Working temperature | 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
- Bridge, road and building construction
- Protects against the penetration of de-icing salt
- Protects against damage caused by frost and de-icing salt
- For use indoors and outdoors

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

To ensure that the cement has time to set properly, concrete should only be treated with a hydrophobizing agent two weeks at the earliest and better four weeks after production.

Property profile

- Improves resistance to frost/de-icing salt
- Water repelling
- Water vapour diffusion-open
- Highly concentrated (80 % active ingredient)

Characteristic data of the product

Characteristic data of the product in the packaged state

Active ingredient content:	approx. 80 % by mass
Active ingredient:	silanes/siloxanes
Carrier material:	water
Density (at 20 °C):	approx. 0.90 g/cm³
Flash point:	approx. 74°C
pH value:	approx. 8.00 neutral
Appearance:	milky, white, creamy

- Can be easily and exactly applied without any loss
- Excellent penetration capacity
- Solvent-free
- UV resistant
- Alkali resistant
- Excellent long-term effect
- Tested according to ZTV-ING, TL/TP OS-A and DAfStb, RL-SIB OS 1
- BASt listed

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

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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

Notes on working
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

Betofix Filler (1008)
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 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 plastic buckets

Application rate:
Depending on porosity: Approx. 0.2-0.5 l/m²

Impregnation agent requirements for calculation and tender should be determined on a sufficiently large trial area (1-2 m²).
The effectiveness of the impregnation can also be checked on this surface.

Shelf-life:
At least 12 months in unopened, original containers stored dry, cool and protected from frost.
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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Surface protection product – hydrophobic impregnation

Depth of penetration	Class II: ≥ 10 mm
Water adsorption and resistance to alkali reistance	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

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

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