



Funcosil C40

Hydrophobising, silane-based impregnation agent in cream form

Availability	
Quantity per pallet	32
Size / Quantity	
	12,5 l
Type of container	Plastic canister
Container code	13
Art. no.	
0704	■

Application rate

Depending on porosity: approx. 0.2 - 0.5 l/m²

Apply to a large enough trial surface (1-2 m²) to determine the precise amount of impregnation agent required.



Range of use



- Deep hydrophobisation of concrete and reinforced concrete in buildings
- Old, carbonated concrete surfaces as well as lime and cement renders
- Not suitable for materials that are sensitive to solvents, such as polystyrene or bitumen.

Property profile

- Improves resistance to frost and de-icing salts
- Repels water
- Enables water vapour diffusion
- Good penetration capacity
- UV-resistant
- Alkali-resistant
- Excellent long-term effect
- Can be applied sparingly, with absolute precision and with no losses

Characteristic data of the product

Carrier material	Dearomatised hydrocarbons/water
Density (20 °C)	Approx. 0.83 g/cm ³
Active ingredient	Silanes/siloxanes
Active ingredient content, % by mass	Approx. 40
Flash point °C	> 61
Appearance	Milky, white, creamy

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Possible system products

- [BFA* \(0673\)](#)
 - [Remmers cleaning products](#)
- *Use biocidal products carefully.
Always read the label and product information before use.

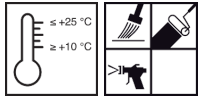
Preparation

- **Substrate requirements**
The substrate must be clean, dust-free and dry.
- **Substrate preparation**
Any construction defects such as cracks, cracked joints, defective connections, rising damp and hygroscopic moisture must be remedied in advance.



Perform any necessary cleaning gently, e.g. by spraying with cold or warm water or by steam-cleaning; use rotec soft whirl jet technology or Remmers cleaning products (e.g. Traffic Film Remover (0671), Clean FP (0666), Clean AC (0672), Combi WR (0675)) on tough stains.

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +10 °C to max. +25 °C.

Apply the impregnation agent with a suitable tool, working crosswise, or by airless spraying.

Tips on use

Take appropriate measures to protect adjacent building elements and materials that should not come into contact with the product.

Protect freshly treated surfaces from driving rain, wind, sunlight and condensation.

Remove any excess impregnation agent within 1 hour using V 101 thinner.

Notes

Deviations from applicable regulations must be agreed separately.

The relevant test certificates must be observed when planning and carrying out work.

Water must not be allowed to penetrate behind the hydrophobized zone.

Carry out a quantitative analysis of aggressive salts if there are any salts present that could damage building materials.

High concentrations of harmful salts can cause major structural damage that impregnation cannot prevent.

The level of absorption is crucial for the impregnation agent to work at its best. This depends on the respective pore volume and moisture content of the building material.

Testing effectiveness:

The water absorption of mineral building materials can be determined using the Funcosil Test Tube developed by Professor Karsten (Funcosil Facade Testing Kit, article no. 4954).

Testing can only be carried out at the earliest 6 weeks after application.

Tools / Cleaning



Long-pile lamb's wool roller, brush.

Airless nozzle: 40° spraying angle, borehole 0.021 inches, max. 60 bar spraying pressure

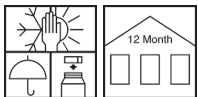
Tools must be clean and dry.

Clean tools with water after use and before any lengthy interruptions to work.

Remmers tools

- [Funcosil Prüfröhrchen \(4928\)](#)
- [Funcosil Test-Set \(4954\)](#)
- [Flächenstreicher \(4540\)](#)
- [Farbrolle FC \(4913\)](#)
- [Teleskopstiel \(4391\)](#)
- [Rollerbügel \(4449\)](#)
- [Pro nylon roller \(5045\)](#)
- [Nylon Roller Standard \(5066\)](#)
- [Heizkörperpinsel \(4541\)](#)

Storage / Shelf life



If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 12 months.

Use the contents of open containers as quickly as possible.

Personal protective equipment

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Biocidal Products Regulation

Contains a biocidal product (in-can preservative) with the biocidal agents CMIT/MIT (3:1) for protecting the container content from deterioration by microbial organisms (germs, yeast, etc.). Please note the processing guidelines carefully!

Declaration of performance

- [Declaration of performance](#)



Declaration of conformity



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CE 05 / UKCA 21
GBI F 007-4
EN 1504-2:2004
0704

Surface protection products – Hydrophobic 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.
Release of dangerous substances:	NPD

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.