



Funcosil BI

Clear, hydrophobising impregnation for concrete

Availability			
Quantity per pallet	84	24	2
Size / Quantity	5 l	30 l	200 l
Type of container	Tin canister	Tin canister	Drum
Container code	05	30	69
Art. no.	0639		

Application rate



Concrete: approx. 0.3 - 0.5 l/m²

Lightweight concrete: approx. 1.0 l/m²

Fibre reinforced cement: approx. 0.3 l/m²

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

Range of use



- Protection of facades against driving rain
- Concrete, exposed aggregate concrete, fibre cement
- Protects against the ingress of de-icing salt
- Protects against damage caused by frost and de-icing salt

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
- Contains solvents

Characteristic data of the product

Carrier material	Dearomatised hydrocarbons
Density (20 °C)	Approx. 0.78
Runout time s in DIN 2 cup	Approx. 44
Active ingredient	Silane/siloxane
Active ingredient content, % by mass	Approx. 20
Flash point °C	Approx. 40
Appearance	Clear, liquid

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.

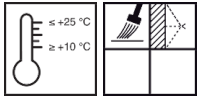
Preparation

- **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 primer abundantly by flow coating without pressure (avoid misting), so that a 30 - 50 cm long liquid film flows down the surface.

Apply on one section at a time, moving from top to bottom, and immediately go over with a large brush.

Repeat the application several (at least two) times (wet on damp) until no further material is absorbed by the substrate.

On surfaces where spray application is not possible, apply using a well-saturated brush.

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.

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.

Not suitable for materials that are sensitive to solvents, such as polystyrene or bitumen.

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.

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.

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



Suitable tools are all solvent-resistant, low-pressure, conveying and spraying equipment and liquid pumps. For floors, a flat brush and paintbrush can also be used.

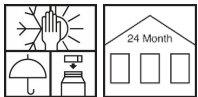
Tools must be clean and dry.

After use and before prolonged interruptions of work clean tools with Thinner V 101.

Remmers tools

- [Funcosil Prüfröhrchen \(4928\)](#)
- [Funcosil Test-Set \(4954\)](#)
- [Gloria CleanMaster PERFORMANCE PF 50 \(4666\)](#)
- [Gloria CleanMaster EXTREME EX 100 \(4665\)](#)
- [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 24 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.

Declaration of performance

- [Declaration of performance](#)



Declaration of conformity



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CE 09 / UKCA 21
GBI F 006-2
EN 1504-2:2004
0639

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.