



Funcosil WS

Hydrophobising impregnation on a silane/siloxane base in aqueous emulsion form

Availability		
Quantity per pallet	84	24
Packaging unit	5 l	30 l
Type of container	Plastic canister	Plastic canister
Container code	05	30
Art. no.		
0614	■	■

Application rate



Sand-lime brick, smooth: at least 0.5 l/m²
 Sand-lime brick, cleft: at least 0.7 l/m²
 Brick, fair-faced masonry: at least 0.8 l/m²
 Brick, coarse-pored: at least 1.5 l/m²
 Aerated concrete: at least 1.3 l/m²
 Lightweight concrete: at least 1.0 l/m²
 Natural stone, fine-pored: at least 0.8 l/m²
 Natural stone, coarse-pored: at least 1.5 l/m²

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

Range of use



- Protection of facades against driving rain
- Reduces susceptibility to dirt and green discolouration
- Topping up old hydrophobic coatings that have been subjected to long-term weathering
- Porous, mineral building materials such as sand-lime brick, natural stone, fair-faced brickwork, mineral render, aerated and lightweight concrete
- Subsequent impregnation of mineral paint coatings
- If the adjoining surface are made of or contain materials that are not resistant to solvents, such as polystyrene (core insulation of bonded thermal insulation systems) or bitumen

Property profile



- Repels water
- Enables water vapour diffusion
- Solvent-free
- UV-resistant
- Alkali-resistant
- Excellent long-term effect

Characteristic data of the product



Carrier material	Water
Density (20 °C)	1
Active ingredient	Silane/siloxane
Active ingredient content, % by mass	approx. 10
pH value	approx. 7.0 neutral
Appearance	milky, 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)**

*Use biocidal products carefully.
Always read the label and product information before use.

Preparation

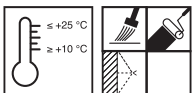
■ **Substrate requirements**

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 the rotec Soft Whirl Jet 25 l (5235) 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 a spraying application is not possible, apply by brush or roller making sure the tools are always well saturated.

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.

Testing effectiveness:



The water absorption of mineral building materials can be determined using the Funcosil Test Plate or 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.

A test of effectiveness needs to be carried out on carbonaceous natural stone.

Always set up a trial area/trial areas first.

Tools / Cleaning

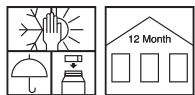


Non-corroding, low-pressure conveying and spraying equipment, liquid pumps, brush, surface brush and lamb's wool roller

Tools must be clean and dry.

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

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.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Personal protective equipment

Respiratory protection with a particle filter P2 must be worn during spraying, together with protective 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.

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.