



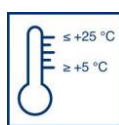
Technical Data Sheet  
Art. No. 0712

## Funcosil FC Plus

Colour intensifying  
Impregnation cream in emulsion form on a si-  
lane/siloxane base



For use  
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

Funcosil FC Plus can be used for hydrophobizing impregnation of porous, mineral building materials.

### Property profile

Funcosil FC Plus is a special product for hydrophobizing and colour intensifying impregnation of brick, clinker and render. The intensity of colour intensification depends on the type and colour of the substrate to be treated. We recommend setting up a suitable trial area.

#### Characteristics:

- Reduction of water absorption with simultaneous
- High diffusion capacity
- Excellent penetration capacity
- Optimal resistance against alkalis
- Strong protective effect against frost/de-icing salt loads
- Colour intensifying
- Cream form and can therefore be applied without loss
- Can be worked over-head
- Early rain tight

### Characteristic data of the product

Active ingredient content:	approx. 40 % by mass
Density:	approx. 0.86 kg/l
pH value:	neutral
Flash point:	Flash point: approx 69° C
Appearance:	milky, white, creamy

#### Characteristic data of the product after activation of ingredients:

Polysiloxane content:	approx. 32 % by mass
Reduction of water absorbency:	very good
UV stability:	very good
Long term effect:	> 15 years (experience)
Alkali resistance:	up to pH 14

Funcosil FC Plus is excellently suited for hydrophobizing mineral building materials. As opposed to conventional liquid products, Funcosil FC Plus can be applied in just one working operation. Depending on porosity, the active ingredient penetrates into the substrate where it reacts and becomes a polysiloxane. The initially white layer disappears completely after approx. 10 to 20 minutes. Funcosil FC Plus has been designed so that the active ingredient penetrates as deeply as possible into the facade which provides optimal protection against the ab-

sorption of water and pollutants and therefore also damage caused by frost-/de-icing salt.

The water repelling effect of Funcosil FC Plus takes longer to develop and is improved by rain.

### Substrate

The substrate must be in sound condition. Structural defects such as cracks, cracked joints, defective connections, rising damp and hygroscopic moisture must be remedied first.

It must also be ensured that water and damaging salts dissolved in

the water cannot penetrate behind the hydrophobized zone.

Surfaces to be impregnated often have poor absorption capacity because of a crust of dirt/patina of various types. The cleaning measures used to restore the original absorption capacity should be as gentle as possible, e.g. by spraying with cold or warm water or by steam cleaning. Stubborn soiling is preferably removed using the Remmers Rotec Low Pressure Blasting Device or one of the Remmers facade cleaning products (see the respective Technical Information Sheet).

When cleaning, make sure that the building material substance is damaged as little as possible. Cleaning agent residue (e.g. surface-active agents) from prior cleaning must be completely washed off since these substances interfere with the hydrophobic effect. Substrates with very little absorption capacity and strongly textured surfaces should be treated with Funcosil SNL or Funcosil WS.

#### **Substrate condition:**

Absorption of the impregnation agent is a prerequisite for an optimal impregnation effect. This depends on the respective pore volume and moisture content of the building material. For this reason, the substrate should be as dry as possible. High concentrations of salts lead to severe damage that cannot be prevented by a hydrophobic impregnation.

#### **Adjacent surfaces:**

Building elements that should not come in contact with the impregnation agent (e.g. glass, lacquered surfaces and surfaces to be lacquered) as well as plants should be covered with polyethylene sheets.

#### **Directions**

Funcosil FC Plus is applied by roller (long-haired lambskin roller), brush or airless equipment. Depending on the absorbency of the substrate, application rates of up to 0.3 l/m<sup>2</sup> can be applied in one working operation even on

vertical surfaces and ceilings without a loss of material.

#### **Working temperature:**

A hydrophobizing impregnation is preferably applied in a temperature range between +5 °C and +25 °C. If the surfaces heat too strongly in sun, this can be prevented by awnings.

At temperatures below +10 °C, evaporation of the carrier and formation of the active ingredient may be delayed.

#### **Rain tight:**

The impregnation is rain tight approx. 30 minutes after application.

#### **Notes**

To prevent constituents in the product from entering the building, close all windows, doors and other openings during impregnation work; after the impregnation agent has dried, ventilate living space thoroughly.

Funcosil FC Plus should not be used for pre-impregnation in a grout jointing system.

#### **Testing effectiveness**

Water absorption in mineral building materials before and after the hydrophobizing impregnation measures can be determined by means of the Funcosil Test Plate (Art. No. 0732) or with a test tube developed by Prof. Karsten (Art. No. 4928).

Testing should be carried out 6 weeks at the earliest after the hydrophobizing measures have been carried out and the measured data recorded.

#### **Tools, cleaning**

Long-hair lambskin roller, brush, airless equipment

Tools should be dry and clean before using. Clean tools and equipment thoroughly after use with water.

#### **Packaging, application rate, storage**

##### **Packaging:**

0.75 l, 5 l and 15 l plastic buckets

##### **Application rate:**

Depending on porosity approx. 0.15 to 0.30 l/m<sup>2</sup>. Impregnation agent requirements for calculation and tendering should be determined on a sufficiently large trial area (1-2 m<sup>2</sup>). The effectiveness of this impregnation agent can also be determined on the same area.

##### **Shelf-life:**

At least 12 months in closed, original containers stored cool but frost-free at temperatures between 0° and 30° C.

#### **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. Use respiratory protection with a combination filter at least A/P2 (made by e.g. Dräger). For suitable protective gloves, see Safety Data Sheet. Wear closed work clothes.**



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.

0712 Funcosil FC Plus\_11.16



Remmers (UK) Limited Crawley  
United Kingdom  
Tel: +44 (0) 1293 594 010  
Fax: +44 (0) 1293 594 037  
[www.remmers.co.uk](http://www.remmers.co.uk)