

# Funcosil® LA SILICONE PAINT



Article No. 6400 - 6430

Pigmented silicone resin emulsion paint.  
Coating with a protective film for surfaces at risk of infestation with alga or fungi.

## Property profile:

Funcosil LA Silicone Paint, which is normally used for new construction and in industrial areas, is chosen more and more often as a coloured protective coating for protected historical objects because of its micro-porous, mineral-like characteristics.

It also has the following properties:

High water vapour and carbon dioxide permeability which

- has a positive influence on the heat balance of buildings in compliance with DIN 4108
- does not prevent a carbonation reaction
- no loss of strength because of drying out too quickly, especially on renders in compliance with DIN 18 550, P I and P II.

Highly tight against liquid water (driving rain and splash water)

- does not darken when wet
- no moisture penetration under extreme weather conditions
- does not swell

Building materials protected with Funcosil LA Silicone Paint absorb only very little water when it rains and these small amounts are easily given off in dry periods. Because of this, the building material stays practically dry and damage caused by moisture is avoided.

Little tendency to soil

- it is not thermoplastic
- low stress
- it cleans itself in rain

Easy to use

- slightly alkaline coating system
- no spotting or streaking
- can easily be coated over
- practically inert against iron and manganese minerals

Unlimited colour variation

- wide range colour collection from pastel to full shade colours
- dries matt, independent of the substrate
- mineral-like in character
- can also be formulated as a scumble for natural stone

High weather resistance

- UV light-proof
- resistant to industrial pollution and micro-organisms

- excellent bonding to all cementitious substrates
- can be applied to old, weathered coatings

Environmentally correct

- water dilutable
- non-corrosive

## Product characteristic data in the packaged state:

Binder:	low molecular silicone resin emulsion
Pigments:	light-proof and alkali resistant oxide pigments
Density:	1.45 - 1.53 g/cm <sup>3</sup> , dependent on colour
Viscosity:	ready to brush or roll
Thinning agent:	water
pH value:	8-9

## Product characteristic data of the coating:

Water vapour permeability according to DIN EN ISO 7783-2:	$S_d \leq 0.05$
Water absorption coefficient according to DIN EN ISO 1062-3:	$w: \leq 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Degree of gloss:	matt, mineral-like character
Surface structure:	smooth
Adhesional/tensile strength on untreated surfaces:	> 0.6 N/mm <sup>2</sup>
on weathered, old coatings:	> 0.4 N/mm <sup>2</sup>
Weather resistance:	very good
Tendency to soil:	little

Behaviour under fire

according to DIN 4102: Class A 2, non-combustible (test certificates available)

Colours: white, clear or according to the Funcosil® colour chart, and special shades

## Range of use:

Because of its characteristics, Funcosil® LA Silicone Paint is used as a water repelling, highly water vapour permeable protective coating for cementitious building materials, especially in combination with Funcosil® Impregnation Primer. Because it can be formulated as a scumble and because of its mineral-like character, Funcosil® LA Silicone Paint is especially suitable for use on natural stone - a difficult coating substrate - in historical monument protection areas.

Funcosil® LA Silicone Paint can also be used as a restoration coating on silicate, silicone and matt, weathered dispersion

## Technical Information Sheet

coatings, synthetic resin renders and functioning, bonded heat insulation systems.

It is not suitable for use on plastic, thermoplastic and elastic coating systems. These systems must be completely removed first with Alkutex® Paint Stripper.

### Substrate:

The substrate must be dry, clean, load bearing, free of loose material, dust, release agents, oil and grease residue. Remove non-adhering coats of paint or other coatings thoroughly. Clean weathered coatings with a high pressure jet.

### Directions:

Priming:

- a) Prime load bearing, untreated cementitious substrates as well as bonded heat insulation systems in compliance with DIN 4102 "A II" that have a mineral finishing coat with Funcosil® Impregnation Primer.  
Application rate: 0.2 - 0.4 l/m<sup>2</sup>, dependent on substrate absorbency.
- b) Prime weathered, sanding, untreated cementitious substrates and chalking silicate paint coatings with Funcosil® Primer SV or Funcosil® Hydro Deep Primer.  
Application rate: 0.3 l/m<sup>2</sup> and more, depending on substrate condition, in one or more applications.
- c) Weathered, matt dispersion and silicone paints as well as synthetic resin renders and bonded heat insulation systems in compliance with DIN 4102 "B 1" should only be primed if necessary using Funcosil® Primer SV or Funcosil® Hydro Deep Primer.

### Filling:

Level uneven, primed surfaces with Funcosil® Silicone Filler.

- a) Texture Adjustment  
If the texture of the substrate needs adjustment, apply Funcosil® Silicone Filler Paint.  
Application rate: approx. 0.3-0.5 kg/m<sup>2</sup>
- b) Intermediate coat  
On substrates with even textures, an intermediate coat of Funcosil® LA Silicone Paint is applied.
- c) Finishing coat  
Apply a finishing coat of Funcosil® LA Silicone Paint to the white or coloured intermediate coat.

Between the individual working operations, a drying time of at least 6 hours, dependent on ambient conditions, should be observed. Protect from direct sunlight and rain according to trade rules. Do not use at temperatures below +5°C.

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.

The required amounts vary and are determined by the absorbency and texture of the substrate. Exact amounts must be determined on a trial area.

When applying, observe VOB [German contract procedures in the building industry], part C, paragraph 3.1.3. Larger, continuous surfaces should be coated wet, all at one time, to avoid streaks/seams. Always use paint with the same batch number when coating continuous surfaces.

### Tools and Cleaning:

Brush, lamb-skin roller.

Clean brushes, equipment and any splashes with water while the paint is still wet.

### Packaging, application rate, shelf-life:

**Packaging:** 5 l and 15 l plastic buckets

**Application rate:** Intermediate coat: approx. 0.25 l/m<sup>2</sup>  
Finishing coat: approx. 0.20 l/m<sup>2</sup>

**Shelf-life:** At least 12 months stored cool but frost-free in original containers.

### Scumble technique:

This technique is used to adjust the colour on natural stone, brick, etc. when restored with Funcosil® Restoration Mortar.  
Mixing ratio:

1 part Funcosil® LA Silicone Paint "full colour" with 2-4 parts Funcosil® WS (Art. Nr. 0614) or with Funcosil® LA clear (Art. No. 6410), depending on the degree of scumble effect desired and task at hand. When coating entire surfaces with a scumble effect, work should be carried out with the semi-scumble variations, Funcosil® Historic Grout Scumble or Funcosil® Historic Scumble.

Funcosil® LA clear (Art. No. 6410) may only be used to adjust the degree of the scumble effect in the following products: Funcosil® LA Silicone Paint, Funcosil® Historic Grout Scumble and Funcosil® Historic Scumble.

### Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as on disposal and ecology is found in the latest Safety Data Sheet.

### Product Code:

M-SF01