

Funcosil[®] D SILICATE PAINT



Article No. 0630, 0634

Single component, organo-silicate paint.

Property profile:

Single component, silicate paint in a brushing consistency with high water vapour and CO₂ permeability.

- Does not inhibit carbonation
- Highly tight against liquid water (driving rain and splash water)
- Does not swell
- Optimal adhesion to cementitious substrates by reacting with carbon dioxide in the air to form an amorphous, glass-like silicate structure.
- Dries without spotting
- Can be used for renovating old coats of mineral paints

Characteristic data of the product in the packaged state:

Binder:	potassium silicates with organic stabilisers according to DIN 18363, VOB part C
Pigments:	lightfast, alkali resistant oxide pigments
Density:	1.40 g/cm ³
Viscosity:	thixotropic
Thinning agent:	Funcosil [®] Silicate Primer D
pH value:	12-13
Colours:	white and shades in intensity level 4, 5 and 6 in the Funcosil [®] Colour Collection chart. Other colours available on request.

Characteristic data of the coating:

Water vapour permeability according to DIN 52615:	$S_d \leq 0.04 \text{ m}$
Water absorption coefficient according to DIN 52617:	$w \leq 0.20 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Water vapour permeability in %:	> 95
Degree of gloss:	mat
Surface texture:	quartz-like
Adhesion to cementitious, untreated substrates:	very good
Resistance to weather:	very good
UV resistance:	very good
Swelling:	does not swell

Range of use:

Funcosil[®] D Silicate Paint is used as a grout coat for all types of uncoated, air dry renders such as lime, lime-cement and cement render, concrete and sand-lime brick fair-faced masonry, concrete and fibrated cement. It can also be used for renovating old coats of silicate, lime and lime-cement coatings.

Do not apply to natural stone surfaces that contain iron or manganese since rust streaks may bleed through the coating.

Substrate:

The substrate should be load-bearing and free of soil, infestation with micro-organisms (alga, moss), cracks and substances that could interfere with adhesion.

Priming:

Funcosil[®] Silicate Primer D is worked from the bottom to the top to reduce the absorbency of the substrate and to make the substrate water repelling to a certain degree. Prime old, chalking silicate coatings twice (wet-on-wet) with Funcosil[®] Silicate Primer D.

Intermediate coat:

Apply Funcosil[®] D Silicate Paint evenly to the dry, primed surface (can be thinned with up to 5% Funcosil[®] Silicate Primer D).

Finishing coat:

Apply a second coat of Funcosil[®] D Silicate Paint evenly to the dry intermediate coat (can be thinned with up to 5% Funcosil[®] Silicate Primer D).

A minimum drying and reaction time of 12 hours should be observed between each coat.
Coating work should always be carried out according to the rules for coating in VOB part C, DIN 18363.

Filling compound:

For filling work, Funcosil[®] D Silicate Paint is filled with quartz sand (grain size 0.1-0.4 mm) to filling consistency. The mixing ratio of Funcosil[®] D Silicate Paint to quartz sand is approx. 1:2.

Notes:

To adjust the shade of colour, commercially available silicate as well as full strength colour and tinting paints can be used up to max. 2%.

Do not apply in direct sunlight, rain or at object temperatures below +5 °C or above +25 °C.

Dark and intensive shades of colour may dry somewhat mottles, so it is better to use pastel shades of colour. The thicker the layer of paint, the lighter the colour dries. Do not mix with other products. Protect from being washed out by rain until sufficiently hardened (1 day). Protect eyes when applying and cover adjoining surfaces.

Technical Information Sheet

The following substrates are unsuitable:

Natural stone that contains iron or manganese, gypsum, gypsum render, gypsum plasterboard, wood and wooden working materials, iron and steel elements and dispersion, polymerisation and oil based paints as well as varnishes and damp substrates. It is also not suitable for horizontal surfaces.

Tools and cleaning:

Brush, lambskin roller

Clean tools and equipment with water while the paint is still fresh.

Packaging, application rate and storage:

Packaging: 15 l plastic buckets

Application rate:

Priming:

Approx. 0.2-0.3 l/m² Funcosil® Silicate Primer D, depending on the absorbency of the substrate.

Intermediate coat:

0.2 l/m² Funcosil® D Silicate Paint / smooth sand-lime brick

0.3 l/m² Funcosil® D Silicate Paint / rough sand-lime brick

Finishing coat:

0.2 l/m² Funcosil® D Silicate Paint / smooth sand-lime brick

0.3 l/m² Funcosil® D Silicate Paint / rough sand-lime brick

Shelf-life:

At least 6 months in unopened, original containers, stored frost-free.

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-SK01

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.

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