Note on English translation / Hinweise zur englischen Fassung
This is a translation of the product data sheet valid in Germany.
All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.
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Plaster and Façade Systems

B128.de

Product Data Sheet 2021-02

Silikatweiss E.L.F.

Vapour permeable silicon paint for interiors

Product description

Vapour permeable, dull matt silicate based emulsion paint for premium quality paint coats on walls and ceilings in interiors.

Composition

Potassium silicate, polymer dispersion, titanium dioxide, calcium carbonate, silicate fillers, water, additives, maximum 5 % organic share.

Storage

The material can be stored for 24 months in the original container in a cool and frost-free environment. Close opened buckets airtight.

Quality

The product is subject to continuous factory production control and is compliant to EN 13300 as well as DIN 18363 section 2.4.1.

Properties and added value

- Low emission
- Diffusion permeable
- Free of preservatives
- Free of solvents and softeners
- Free of fogging active substances
- High coverage
- White (approx. RAL 9016)
- Gloss level dull matt
- Limited colour shading with the Knauf ColorConcept colour shade selector card

Field of application

Silikatweiss E.L.F. paint is easy to apply. Silikatweiss E.L.F. paint is applied manually as an original or renovation coat after a suitable primer or pretreatment has been applied.

- On gypsum boards
- On gypsum plasters (e.g. MP 75, MP 75 L)
- On plasters for interior use, (e.g. Pico der Feine)
- On gypsum wallboards
- On wallpapers and fleece wallpaper.
- On concrete,
- On limestone facing masonry
- On exposed brick masonry
- Old silicate-based paint layers

Type

Substrate and pretreatment

Substrate	Pretreatment
Lime-based/cementitious mortar CS II/CS III acc. to EN 998-1	Pretreat coarse, porous, sanding, highly absorbent substrates with Grundol.
Gypsum plasters compliant to EN 13279-1	Sand gypsum plasters with a sinter skin and remove the dust. Primer coat with Grundol.
New mineral-based renders (e.g. Noblo, SP 260, Pico der Feine)	Apply without primer coat. Observe the drying times
Gypsum boards	Sand down coarse filler and remove the dust. Apply a primer coat with Grundol and if there is a danger of possible yellowing (observe BFS Code of Practice No. 12) apply a barrier coating of Atonol
Gypsum drywall boards	Apply a Grundol primer coat for highly absorbent substrates.
Concrete	Remove traces of release agent (e.g. formwork oil)
Limestone facing masonry	Brush off salt efflorescence when dry and prime with Grundol if necessary
Exposed brick masonry	Primer coat with Grundol.
Unpainted paper wallpaper, fleece wallpaper and relief wall coverings.	Apply without primer coat. Apply a trial coat

Preparation

Check substrate for compliance with VOB part C, DIN 18350, DIN 18345 chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 no. 3. Clean the substrate of dust and loose parts and remove ensuring that the surface is smooth. Cover easily-soiled building components before commencement in accordance with Code of Practice “Abklebe- und Abdeckarbeiten für Maler- und Stuckateurarbeiten” issued by the German Bundesverband Ausbau und Fassade.

Preparation of the substrate in accordance with the Substrate/Pretreatment table. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion. Test the stability and compatibility of existing coats (old plasters and paint coats) before application of Silikatweiss E.L.F.

Application

Stir Silikatweiss E.L.F. paint thoroughly with an electrical agitator before application. Apply a generous, uniform and undiluted coat of Silikatweiss E.L.F. paint or diluted by maximum 5 % with water to the substrate. On high-contrast surfaces with high level or different suction properties, a primer coat, diluted with maximum of 10 % water, may be necessary. The paint coat can be applied by painting, roller application or by spray painting with airless machines.

Airless machine application

e.g. PFT Samba XL

- Spray pressure 130 to 150 bar
- Nozzle 0.017“ to 0.019“
- Nozzle angle 50°

Caution	Dilute material for application by airless machine with a maximum of 10 % water. Sift the material before airless machine application.

Application temperature / climate

Do not apply with air and/or substrate temperatures below 8 °C.

Application time

Silikatweiss E.L.F. paint is touch dry at +20 °C and 65 % relative humidity after approx. 4 to 6 hours. Fully dry and ready-to-use after at least 3 days. The times are extended at low temperatures and/or higher levels of air humidity. Allow at least 24 hours drying time between coats.

Cleaning

Clean the machines and tools with water immediately after use. Wash off paint splashes immediately with clear water.

Notes	Paint coats have to be applied according to DIN 18363 VOB part C section 3 as well as the generally recognized building engineering rules and valid guidelines. Work fresh-in-fresh in a single work step to avoid the formation of visible edging. Silikatweiss E.L.F. paint achieves its full hiding power in the dried state. Painting over when not fully dry can cause crust formation or varying behaviour of the coverage capacity. Slight differences in colour shades can result due to the contained natural aggregates. The colour shade should be verified before application. When using pigmented Silikatweiss E.L.F. paint on optically connected plastered surfaces, only apply materials with the same batch number (when reordering please supply the batch number of the previous delivery) or mix together materials originating from different batches.

Technical data

Description	Standard	Unit	Silikatweiss E.L.F.
Contrast ratio Yield	ISO 6504-3	Category m^2/l	2 7
Wet-scrub resistance	ISO 11998	Category	2
Grain size	EN ISO 1524	Class	S1, < 100 µm, fine
Density	–	g/cm^3	1.60

The technical data was determined according to the respective applicable test standards. Deviations under site conditions are possible.

Material requirement and efficiency

Surface	Type l/bucket	Consumption approx. l/m^2	Yield approx. m^2/bucket
Smooth	12.5	0.14 – 0.16	78.0 – 89.0
Rough		0.18 – 0.20	63.0 – 69.0

The exact consumption can only be determined with a test application on the individual object.

Product range

Description	Type l	Paint	Packaging unit Buckets/pallet	Material number	EAN
Silikatweiss E.L.F.	12.5	White	32	00178083	4006379075669

Please refer to the Farbcenter (colour center) for possible colour shades (German only) at:
www.knauf-farbcenter.de

B128.de Silikatweiss E.L.F.

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Observe safety data sheet!
For safety data sheets and CE marking see
pd.knauf.de

Videos for Knauf systems and products can be found under the following link:
www.youtube.com/knauf

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