Data Sheet

Silicate Brush-On Filler ELF 3639

Low-emission, solvent and plasticizer free, on dispersion silicate basis according to DIN 18363, white, matt, fiber-reinforced, for interior and exterior use

Basecode Farbsystem

Field of application

For filling, crack-filling and texturing intermediate coats on mineral, silicifying substrates e.g. interior and exterior plaster, sandlime brickwork, silicate and mineral paint coats, etc. Can be used for intermediate coats (render primer) for coatings involving silicate renders. Can also be used as adhesion-promoting contact paint on low-absorbent substrates such as matt, non-elastic and saponification-resistant organic old coats. On surfaces exposed to moisture (depending on location and construction, as well as in the case of highly heat-insulated facades) there is a risk of algal and fungal infestation. For such surfaces we recommend using a coating system in “Protect Quality” (for further information, refer to Note).

Properties

- ELF = low-emission, solvent- and plasticizer-free
- Fiber-reinforced
- Low odor
- For interior and exterior use
- Weather-resistant
- Quartz-filled
- Crack-filling
- Ready to apply
- Silicate base in accordance with DIN EN 15824 with organic stabilizers
- Bonds to the substrate by silification
- Highly water-vapor-permeable
- Water repellent (hydrophobic)
- Optionally available for exterior use in Protect quality (film protection against algal and fungal infestation of the coating)

Material description

Standard color shade	0095 white Bright colors can be mixed via Brillux color system. Other colors available upon request.
Gloss grade	matt
Base material	Potassium silicate with organic stabilizers
Organic fraction	< 5% according to VOB Part C, DIN18363, Par. 2.4.1
Density	approx. 1.43 g/cm³
Ph value	approx. 11
Reaction to fire	A2 – s1, d0 in accordance with DIN EN 13501-1 (“nichtbrennbar”, non-combustible) With system build-up featuring Briplast filler material according to classification report no. 230010838-3.
Water vapor permeability	Diffusion-equivalent air layer thickness: S_d (H_2O) < 0.03 m, in accordance with DIN EN ISO 7783, corresponds to Class V_1 “highly water-vapor-permeable” in accordance with DIN EN 1062-1
Water absorption coefficient	w-value < 0.2 kg/(m²·$h^{0.5}$) in accordance with DIN EN 1062-3, corresponds to class W_2 “medium water-vapor-permeable” in accordance with DIN EN 1062-1
Water vapor diffusion current density	P ≥ 2000 g/m²d
Packaging	0095 white: 25 kg Color system: 20 kg

Use

Thinning	If required, dilute with a mixture of Fondosil 1903 and water (mixing ratio 1:1), depending on the absorptive capacity, object situation and flow requirements.
Tinting	Tintable up to max. 10% using Vitamix 9018. Note that colors are brighter when dry.
Compatibility	May only be mixed with materials of the same type and the materials specified for this purpose in this data sheet.
Application	Silicone Brush-On Filler 3639 can be applied using a paint-brush or paint roller.
Consumption	As intermediate coat for subsequent silicate render coats: Approx. 200–250 g/m² per layer on smooth substrates. On rough surfaces, consumption will be higher. As texture-leveling coat in silicate system: Approx. 500–800 g/m² per layer. Determine exact consumption by means of a test application on the object to be coated.
Application temperature	Do not apply if air or object temperature is below +8 °C. Do not use in direct sunlight, strong wind or very high atmospheric moisture.
Tool cleaning	Clean tools immediately after use with water.

Drying (+20 °C, 65% relative humidity)

Allow to dry for at least 12 hours before applying the next coat or continuing the system build-up. Full silicification only after several days. Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

Store in a cool and frost-free location. Reseal opened containers tightly.

Declaration

Product code BSW10
Comply with the specifications in the current Safety Data Sheet.

Coating build-up

Substrate pretreatment The substrate must be solid, dry, clean, load-bearing and free from efflorescence, sinter layers, separating agents, corrosion-promoting components or other intermediate layers affecting the adhesion. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Remove defective and unsuitable coatings thoroughly and dispose of them in accordance with the applicable regulations. Thoroughly wash off limepaint. Clean areas infested with fungus or algae thoroughly and treat them with Universal Disinfectant 542*. (*Use biocide products with care. Always read the label and product information before use.) Treat replastered areas with a fluorine primer, if the subsequent paint coat is to be tinted, prime the entire surface. Coat reinforcement layers after allowing them to cure and dry properly (at least 3 days, with +20 °C, 65 % r. m.). Apply a prime and/or intermediate coat to the substrate as required. Also see VOB Part C, DIN 18363, Section 3.

Coating build-up

Substrates	Prime coat	Intermediate coat	Top coat[3)]
Reinforcement layer, e.g. in Brillux ETIC system[1)]		Silicate Brush-On Filler 3639 [2)]	Silicate Render HP KR or Silicate Render KR, graining as required
Untreated, normal and low-absorbent substrates, e.g., exterior plaster (compressive strength category CS I–CS IV) [4)]	If necessary, also exterior with a mixture of Fondosil 1903, water and Ultrasil HP 1901 in a ratio of 1:1:1.	Silicate Brush-On Filler 3639	Silicate Render HP KR, Silicate Render KR, or 1–2x Ultrasil HP 1901 or Eurosil 1907, Profisil 1906 and Kalisil 1909
Strongly and irregularly absorbent substrates, e.g., crumbling exterior plasters (compressive strength category CS I–CS IV) [3)], sand-lime brickwork, absorbent intact mineral coatings	2x wet in moist with Fondosil 1903, diluted with water (1:1)		

[1)] Do not use Silicate Brush-On Filler 3639 or Silicate Render KR in system build-up with Qjusion Organic 3712 or Qjusion Organic SK 3726.
[2)] Not required in the case of white top render with Silicate Render KR and reinforcement with ETICS Powder Adhesion 3550.
[3)] In the case of a colored top coat, use Silicate Brush-On Filler 3639 in a color matching the color of the top coat.
[4)] Minimum compressive strength > 1.5 N/mm²

Notes

Use in the interior	If used in the interior, provide for good ventilation during application and drying.
Cover surfaces	Cover adjacent areas thoroughly, in particular glass, clinker brick and natural stone.
Repairing cracks and defective areas	After priming, fill cracks and indentations using a filler mixture of silicate paint and quartz sand to obtain a level surface. Filled areas must be primed again. Major substrate defects must be replastered.
Use in incidence of grazing light	On smooth surfaces with special lighting conditions (grazing light), we recommend using Kalisil 1909 or alternative special interior emulsion paints, such as Glemalux ELF 1000, Superlux ELF 3000 or Vitasense 9005 – preservative-free.
Protection of the coating	Protect fresh silicate coatings from the effects of humidity, e.g. rain, but also from drying too fast which can be caused by strong wind, direct sun, etc. Do not apply on heated surfaces, if necessary, use protective sheeting.
New mineral substrates	Allow new mineral substrates, particularly plaster surfaces to cure and dry properly (at least 14 days, better 4 weeks) before coating them. Depending on weather conditions and season, the drying process may take even longer.
As “Protect” quality	The quality designated as “Protect” is provided with a film preservation against algal and fungal infestation and should, therefore, only be used on the exterior. The conserving material used minimises or delays the algae or fungus infestation risk. Paints provided with a film preservation must be applied with sufficient coating thickness, we recommend that at least two coats should be applied. In accordance with our present state of technical knowledge it is not possible to guarantee permanent protection against algae or fungal infestation.
Further information	Follow the instructions on the data sheets of the products used.

Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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