

**NEW** NEW QUALITY

# AmphiSilan FREE

Mineral matt facade paint in a special silicone resin binder combination with a capillary-hydrophobic surface for clean, fast drying facades



## Product Description

### Field of Application

Facade paint with special silicone resin-binder combination.

Can be used on mineral and dispersion-bound renders, as well as for renovation coats on firmly adhering silicate paint and matt dispersion paint coats, can be used on intact external thermal insulation composite systems and on listed buildings as well as lime-rich renders.

The microporous and robust surface ensures weather-resistant, water-repellent, highly water vapour permeable façade coatings with rapid re-drying after precipitation and dew moisture.

### Material Properties

- Without biocides as coating protection
- Fast re-drying after exposure to moisture for low soiling tendency
- Robust, weather-resistant surface
- Very good hiding power
- Alkali-resistant, therefore unsaponifiable
- CO<sup>2</sup>-permeable

### Material Base / Vehicle

Binder combination of silicone resin emulsion and polymer dispersion

### Packaging/Package Size

Standard product: 12.5 l  
ColorExpress: 2.5 l, 7.5 l, 12.5 l

### Colours

White

Further shades can be tinted via ColorExpress. Quantities of 100 litres or more per order in one individual colour shade can be ordered ready-tinted ex factory.

In order to detect possible tinting errors, please check for colour accuracy before processing. In case of conspicuities or deviations from the delivery target (e.g. colour deviations) or from the usual quality, please also refer to the guidelines on inspection obligations for the delivery of tinted goods of the "Verband für Dämmsysteme, Putz und Mörtel e.V." and the "VDPM".

Only use colour shades of one production (batch) on continuous surfaces. AmphiSilan can also be tinted with suitable AmphiColor colours. In case of self-tinting, mix the required total quantity to avoid differences in colour shade. Intense colours may have a lower hiding power. It is therefore advisable to apply a comparable, opaque, white-based, pastel colour shade first. A second top coat may be necessary.

### Color resistance according to German BFS\*-Merkblatt (Data Sheet) No. 26:

Class: B (binder)  
Group: 1 (pigmentation)

\*Bundesausschuss Farbe und Sachwertschutz  
(German committee dealing with paint and protection of properties)



# TECHNICAL INFORMATION NO. 145

Gloss Level	Matt, class: G <sub>3</sub>										
Storage	Please store in a cool place and keep the container tightly closed.										
Technical Data	Characteristics according to DIN EN 1062:  ■ Maximum particle (grit) size: < 100 µm, class: S <sub>1</sub>  ■ Density: Approx. 1.5 g/cm <sup>3</sup> ■ Dry film thickness: 100 - 200 µm, class: E <sub>3</sub> ■ Diffusion-equivalent air layer thickness s <sub>d</sub> H <sub>2</sub> O: <0.14 m, class V1 (high) Due to tinting, there are deviations in the technical characteristics possible.  ■ Water permeability (w-value): ≤ 0.1 [kg/(m <sup>2</sup> · h <sup>0.5</sup> )] class: W <sub>3</sub> (low)  Deviations in the technical characteristics are possible due to tinting.										
Supplementary Product	AmphiSilan FREE Nespri Capatect AmphiSilan Fassadenputz FREE CapaGrund Universal Minera Universal OptiSilan TiefGrund AmphiColor Vollton- und Abtönfarbe										
Suitability according to Technical Information No. 606 Definition of Application Areas	<table border="1"><thead><tr><th>Interior 1</th><th>Interior 2</th><th>Interior 3</th><th>Exterior 1</th><th>Exterior 2</th></tr></thead><tbody><tr><td>-</td><td>-</td><td>-</td><td>+</td><td>+</td></tr></tbody></table> <p>(-) not suitable / (○) conditionally suitable / (+) suitable</p>	Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2	-	-	-	+	+
Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2							
-	-	-	+	+							

## Application

Suitable Substrates	The substrates must be dry, free from dirt and substances that may prevent good adhesion. In Germany observe VOB, Part C, DIN 18363, Para. 3. For substrate pre-treatment, please also observe our Technical Information No. 650 "substrates and their pre-treatment".
Substrate Preparation	<b>New and existing, sound/ stable external thermal insulation composite systems with surfaces of synthetic resin render, silicone resin render, lime-cement rendering / solid mortar according to DIN EN 998-1 type CS II 1.5 - 5.0 N/ mm<sup>2</sup>:</b>  Old plasters can be wet-clean by using a suitable method. If using pressure washing only with a max. temperature of 60° C and a pressure of max. 60 bar. Allow sufficient drying time after cleaning. Apply coatings of Caparol materials according to the existing finishing coat type and the following substrate specifications.  <b>Finishing plasters according to DIN EN 998-1 class CS II, 1.5 - 5.0 N/mm<sup>2</sup>:</b> New plasters can be coated after a sufficient waiting period, usually after 2 weeks at approx. 20°C and 65% rel. humidity. In unfavorable weather conditions, e.g. influenced by wind or rain, significantly longer waiting times must be observed. An additional key coat of CapaGrund Universal reduces the risk of lime efflorescence with alkaline finishing plasters, so that the paint can be applied after a waiting period of 7 days.  <b>Old plasters:</b> Renewed plaster areas must be well set and dried out. Apply a key coat of OptiSilan TiefGrund on coarsely porous, absorbent, slightly sanding plasters. Apply a key coat of Dupa-Putzfestiger on heavily sanding, powdery plasters.  <b>New silicate finishing renders:</b> Coat with products from our silicate Sylitol® range.  <b>Old mineral paints and renders:</b> Clean adherent, stable coatings mechanically or with high-pressure water jet, in compliance with the regulations. Remove unstable, weathered coatings by abrading, sanding/grinding or by scraping off. Apply a key coat of Dupa-Putzfestiger.  <b>Load-bearing dispersion plaster or silicone resin plaster coatings:</b> Clean old plasters with a suitable method. In the case of wet cleaning, allow the surfaces to dry thoroughly before further treatment. Apply a key coat of CapaGrund Universal or Dupa-Putzfestiger. Coat new synthetic resin or silicone resin plasters without pretreatment.

**Load-bearing dispersion, dispersion silicate or silicone resin paint coatings:**

Clean old coatings with high pressure water jets in compliance with the legal regulations.

Germany: Observe the substrate test in accordance with BFS-Merkblatt No. 20.

Old coatings with the following properties:

**Slightly absorbent, firm, dry, stable:** see point "Surface Coating System".

**Moderately absorbent:** CapaGrund Universal diluted up to 3% with water.

**Strongly absorbent:** OptiSilan TiefGrund or Dupa-Putzfestiger

**Old coatings on ETICS:**

**Strongly absorbent, firmly adhering, fine hairline cracks:**

Dupa-Putzfestiger

**Chalking or powdering (also under the action of water based on BFS No. 20, B.13 "Oberflächenfestigkeit, Kreidung"):**

First prime with Dupa-Putzfestiger

**Shiny and water-repellent (hydrophobic) surfaces:**

Roughen mechanically. First prime with CapaGrund Universal. If there is still a water repellent effect after the mechanical roughening, we recommend a primer coat with Dupa-HaftGrund.

**Paint and plaster coatings that are not stable:**

Remove completely using a suitable method, e.g. by sanding, brushing, scraping, stripping and subsequent cleaning with high-pressure water jets in compliance with legal regulations or other suitable measures. In the case of wet cleaning, allow the surfaces to dry thoroughly before further treatment. Prime powdery, sandy, absorbent surfaces with Dupa-Putzfestiger.

**Brick exposed masonry:**

Only frost-resistant facing bricks or clinker bricks without foreign inclusions are suitable for painting. The masonry must be dry, free of salt and the joints free of cracks. First prime with Dupa-Putzfestiger. If brown discoloration occurs after the intermediate coat with Minera Universal, the top key coat must be carried out with Duparol.

**Sand-lime brick masonry:**

Only frost-resistant facing bricks that do not contain any floating or discoloring foreign inclusions such as sand or clay are suitable for painting. Brush off salt efflorescence when dry. Observe BFS-Merkblatt No. 2. First prime with OptiSilan TiefGrund and then apply an intermediate coat of Minera Universal.

**Fungal or algae-infested areas:**

Coat with the fungicidal and algicidal special paint AmphiSilan.

**Surfaces with salt efflorescence:**

Remove salt efflorescence dry by brushing. Then first prime with Dupa-Putzfestiger. When coating surfaces with salt efflorescence, no guarantee can be given for the permanent adhesion of the coating or the prevention of salt efflorescence.

**Defects:**

Repair small defects with fine filler Caparol Fassaden-Feinspachtel. Repair big defects up to 20 mm preferably with Histolith-Renovierspachtel. Prime the repaired areas subsequently.

**Observe the technical information of the products mentioned.**

Method of Application

Can be used with a paint brush or roller.  
For airless application of AmphiSilan FREE we recommend AmphiSilan FREE in Nespri setting, processed by Nespri spraying.

Surface Coating System

**First key coat:**

According to the specifications under the point "Substrate preparation".

**First key coat or intermediate coat:**

AmphiSilan diluted with max. 5% water or OptiSilan TiefGrund.

**Finishing key coat:**

AmphiSilan diluted with max. 5% water or OptiSilan TiefGrund.

Consumption

Approx. 150–200 ml/m<sup>2</sup> per application on a smooth surface. On rough surfaces, the exact consumption must be determined by applying a test coat.

Application Conditions

Temperature limits during processing and drying: Material, air and substrate temperature: min. +5 °C to max. +30 °C

Drying/Drying Time

At +20 °C and 65 % relative humidity surface-dry after 2 - 3 hours and recoatable after 12 hours. Completely cured and ready for stress after approx. 3 days.

Observe longer drying times at lower temperatures and higher humidity.

Tool Cleaning

Clean tools with water after use. Observe waste water regulations.

Note	<p>To avoid paint deposits, coat larger areas wet-on-wet in one go. Do not use on horizontal surfaces exposed to water. There is an increased risk of fungus and algae formation on facade surfaces that are exposed to more moisture than usual under special building conditions or due to natural weather influences.</p> <p>In the case of dark colors, mechanical stress can lead to light stripes (writing effect). AmphiSilan reduces this product-specific property of all matt facade paints.</p> <p>In the case of dense, cool substrates or if the drying time is delayed due to the weather, auxiliary substances can become visible on the surface of the coating as yellowish/ transparent, slightly shiny and sticky paint tears due to exposure to moisture (rain, dew, fog). These auxiliary substances are water-soluble and are removed automatically with sufficient water, e.g. after repeated heavy rainfall. This does not adversely affect the quality of the dried coating. Should a direct rework still take place, the paint tears/ auxiliary substances must be pre-moistened and washed off completely after a short exposure time. An additional key coat of CapaGrund Universal must be carried out. If the coating is applied under suitable climatic conditions, these paint tears do not occur.</p> <p>Markings of repairs in the surface depend on many factors and are therefore unavoidable (BFS-Merkblatt No. 25).</p> <p>Copper paint tears (CU ions in rainwater) react with the constituents of AmphiSilan to create a brownish discoloration. Corresponding copper surfaces must therefore be protected from oxidation. Alternatively, our ThermoSan NQG or Muresko products can be used.</p>
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## Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<p>May cause an allergic skin reaction. If medical advice is needed, have container or label ready. Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ eye protection. IF ON SKIN: Wash with plenty of soap and water. Hotline for allergy inquiries: 0800/1895000 (free of charge from the German landline network). Contains: 1,2-benzisothiazol-3 (2H)-on, 2-octyl-2H-isothiazol-3-on, reaction mass of 5-chloro-2-methyl-2H -isothiazol-3-on and 2-methyl-2Hisothiazol-3-on (3:1).</p> <p>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</p>
Disposal	<p>Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Observe the relevant national regulations.</p> <p><u>In Germany:</u> Dispose of liquid material residues at the collection point for old paints/ varnishes, dispose of dried material residues as construction and demolition waste or as municipal waste or household waste.</p>
EU limit value for the VOC content	Category A/c: 40 g/l (2010). This product contains max. <40 g/l VOC.
Product Code Paints and Enamels	Giscode: BSW30
Substances of Content - Declaration	Polyacrylate resin, silicone resin, polysiloxanes, titanium dioxide, silicates, calcium carbonate, mineral pigments / fillers, water, glycol ethers, additives, film protection agents, preservatives.
Further Details	See Material Safety Data Sheet (MSDS).
Customer Service Centre	Tel.: +49 6154 71-71710 Fax: +49 6154 71-71711 e-mail: kundenservicecenter@caparol.de
	International Distribution: Please see <a href="http://www.caparol.com">www.caparol.com</a>

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