

AmphiSilan-Compact

Silicon resin based intermediate and final coating with filling properties.



Product Description

Field of Application	<p>Filling facade coating for renders/plasters, sound matt silicate and dispersion (emulsion) paints, sound ETICS/EWI Systems* suited for the visual levelling of non-uniformly textured mineral renders/plasters or for texture equalisation of re-plastered and repaired surface areas within the AmphiSilan product line. Recommended for the siltation of small renders/plasters-related cracks.</p> <p>*External Thermal Insulation Composite System / Brit. term: External Wall Insulation.</p>
Product Properties	<ul style="list-style-type: none"> ■ Weather resistant ■ Water repellent (Hydrophobic) ■ Non-film-forming, micro-porous ■ High vapour permeability ■ Low surface tension ■ Permeable to CO₂
Product Base / Vehicle	Combined silicone resin and special polymer emulsion.
Packaging/Package Size	Standard product: 15 kg
Colours	<p>White</p> <p>AmphiSilan-Compact can be tinted with AmphiSilan-Volltonfarben / colourants. For self-tinting purposes the entire required quantity of product must be prepared and mixed in advance in order to avoid colour differences in the applied coating.</p> <p>AmphiSilan-Compact can be tinted to all current colour collections via the ColorExpress tinting machine system, up to a luminosity of approx. 60. Please check the shade precision before applying and use identical batch on continuous surfaces.</p> <p>Colour resistance according to BFS Data Sheet No. 26: Class: B Group: 1</p>
Gloss Level	Matt, G ₃ according to DIN EN 13 300 in accordance with EN ISO 2813
Storage	Keep in a cool, but frost-free place.



<p>Technical Data</p>	<p>Characteristics according to DIN EN 1062:</p> <ul style="list-style-type: none"> ■ Maximum particle (grit) size: < 300 µm, S2 ■ Density: Approx. 1.7 g/cm³ ■ Dry film thickness: 100–200 µm, E₃ ■ Diffusion-equivalent air layer thickness s_dH₂O: (sd-value): <0.14 m (high) V₁ ■ Water permeability (w-value): (w-value): ≤ 0.1 [kg/(m² · h^{0.5})] (low) W₃ Tinting may cause variations. ■ Crack bridging classes: Crack bridging surface coating system: 2 x 400 g/m² AmphiSilan-Compact, class: A₁ (> 100 µm) Tinting may cause variations.
<p>Supplementary Product</p>	<p>AmphiSilan-Tiefgrund TB AmphiSilan-Putzfestiger AmphiSilan-Grundierfarbe AmphiSilan-Volltonfarben</p>

Application

<p>Suitable Substrates</p>	<p>The substrate must be sound, dry, clean, and free from all materials that may prevent good adhesion. Follow VOB, Part C, DIN 18 363.</p>
<p>Substrate Preparation</p>	<p>New and Existing, Sound ETICS/EWI Systems* with Surfaces of Synthetic Resin-Bound Render/Plaster, Silicone Resin Render/Plaster, Lime Render/Plaster (Plc), Lime Cement Plaster (Pll): Clean existing renders/plasters by suitable wet cleaning method. While cleaning with hydraulic blasting equipment / pressure (power) washer, the temperature should not exceed 60° C. max. pressure: 60 bar. Allow to dry for a sufficiently long time after cleaning. Coat with AmphiSilan materials according to the type of existing render/plaster coatings, the below mentioned substrates and their special treatment requirements.</p> <p>Class Plc Hydraulic Lime Mortars, Class Pll Lime-Cement Mortars, Class Plll Cement Mortars: New renders/plasters must be left untreated for a sufficiently long time, normally for 2 weeks at approximately 20° C and 65 % relative humidity. Adverse weather conditions, influenced e.g. by wind or rain, extend the curing process and a correspondingly longer idle period must be respected. The risk of calcareous efflorescence on alkaline renders/plasters (Plc, Pll, Plll) can be reduced by an additional priming coat of CapaGrund Universal and the finishing render/plaster coat may be coated after a waiting time of 7 days.</p> <p><i>Existing renders/plasters:</i> Prime highly porous, absorbent, slightly sanding renders/plasters with AmphiSilan-Tiefgrund LF. Prime highly sanding, chalking renders/plasters with AmphiSilan-Putzfestiger. Repairs must have adequate time to cure and dry.</p> <p>New Coatings of Silicate Render Finishes: Coat with products from our silicate Sylitol product line.</p> <p>Existing Coatings of Silicate Paints: Clean adherent, sound coatings mechanically or with high-pressure water jet, in compliance with the regulations. Remove unsound, weathered coatings by abrading, sanding/grinding or by scraping off. Prime with AmphiSilan-Putzfestiger.</p> <p>Sound Existing Synthetic Resin- and Silicone Resin-Bound Renders/Plasters: Clean existing renders/plasters by suitable method. Allow wet surfaces to dry well before any further treatment. Apply a priming coat of AmphiSilan-Grundierfarbe or AmphiSilan-Putzfestiger. New organic/synthetic or silicone resin renders/plasters can be coated without pre-treatment.</p> <p>Sound Coatings of Dispersion (Emulsion) Paint: Roughen the surface of slightly glossy coatings. Clean soiled or chalking coatings with a high-pressure water jet, in compliance with the regulations. Allow the surface to dry well. Apply one priming coat of AmphiSilan-Grundierfarbe.</p>

Unsound Coatings of Enamel, Dispersion (Emulsion) Paint or Synthetic Resin-Bound (Organic) Render/Plaster:

Remove completely by suitable means, e.g. mechanically or via paint stripper, followed by surface cleaning with a high pressure steam jet in compliance with the regulations. Prime with AmphiSilan-Grundierfarbe. Apply one priming coat of AmphiSilan-Putzfestiger on chalking, sanding, absorbent surfaces. Apply one intermediate coat of AmphiSilan-Compact.

Fair-Faced Brick Masonry:

Only frost-resistant bricks and clinkers free of foreign inclusions are suitable for coatings. Jointing must be free of cracks and salts (salty efflorescence). Prime with AmphiSilan-Putzfestiger. If brown discolouration appear on the intermediate coat of AmphiSilan or AmphiSilan-Compact, apply Duparol for the finishing coat.

Sand-Lime Brick Masonry:

Only frost-resistant bricks free of foreign inclusions like sand or clay/loam are suitable for being coated. Jointing must be free of cracks. Clean chalking surfaces, remove salty efflorescence by dry wire brushing. Please follow BFS Data Sheet No. 2. Prime with AmphiSilan-Tiefgrund LF. Apply an intermediate coat of AmphiSilan-Compact.

Surfaces with Fungi or Algae Attack:

Coat with the fungicidal and algicidal special paint ThermoSan

Surfaces with Salty Efflorescence: Remove salty efflorescence by dry wire brushing. Prime with AmphiSilan-Putzfestiger. Coating of such surfaces must be considered a risk for which we cannot accept responsibility, since even after the most thorough treatment the efflorescence may recur

Defects:

After having completed the necessary preparations, repair small defects in accordance with our application instructions either with Caparol Fassaden-Feinspachtel or in case of larger defects (up to 20 mm) repair with Histolith Renovierspachtel. Prime all repair patches subsequently.

Method of Application	Apply with paint brush, roller or airless spraying equipment.
Surface Coating System	First and finishing coat of AmphiSilan-Compact, diluted up to a max. of 10 % with tap (potable) water.
Consumption	Approx. 350 – 400 g/m ² depending on the substrate and based on one application. The exact rate of consumption is best established by a trial coating.
Application Conditions	Minimum Temperature for Application and Drying: +5 °C for product, ambient air and substrate.
Drying/Drying Time	At 20 °C and 65 % relative humidity: surface-dry after 2 – 3 hours, recoatable after 12 hrs. Completely dry after 2 – 3 days. Lower temperatures and higher humidity extend the drying time.
Tool Cleaning	Clean tools immediately after use with water.
Note	To avoid lapping on large surfaces, the product should always be applied wet-on-wet and without interruptions. For airless spray application stir well and sieve the product. Do not apply AmphiSilan Compact on horizontal surfaces exposed to rain/water or moisture. Façades in special climatic conditions (high moisture content) or subjected to a higher influence of atmospheric exposure: It is recommended to apply our special product ThermoSan, provided with algicidal and fungicidal agents to counteract organic growth (delaying infestation). Mechanical loads (scratching) on matt façade paints in dark shades may produce bright-toned stripes as a product specific property (no writing resistance). In case of moist weather conditions (rain, dew, fog) yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by the weather. The traces of additives are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of CapaGrund Universal must be applied. The traces do not occur when the product is applied under suitable climatic conditions. Touch ups may be visible and can be caused by many factors and are therefore unavoidable. In Germany: Refer to BFS-Merkblatt 25.
	Compatibility with other Paint Materials: Do not mix AmphiSilan-Compact with other paint materials, in particular not with silicate or synthetic resin dispersion (emulsion)-based colourants or concentrated tinting materials.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains, water courses and onto the ground. Protect eyes and skin from paint splashes. Cover surrounding areas of the coating surfaces carefully. Remove splashes on enamel coatings, glass, ceramics, metal, natural stones immediately with tap water. If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria. Only to be applied by paint brush or roller. In case of spray application: Do not breathe spray dust.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.

EU limit value for the VOC content

of this product (category A/c): max. 40 g/l (2010). This product contains max. 10 g/l VOC.

Product Code Paints and Enamels

M-SF01 F

Substances of Content - Declaration

Hybrid-Binder (Organo-Silicate/Acrylate), silicone resin, titanium dioxide, silicates, calcium carbonate, water, film forming agent, additives, preservative agent

Further Details

See Material Safety Data Sheet (MSDS).

Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

Customer Service Centre

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