

# AmphiSilan Nespri

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



## Product Description

### Field of Application

Facade paint with special silicone resin-binder combination. Can be applied mist-free in the special Nespri spraying method.

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

The microporous and robust surface ensures rain-repellent, highly water vapour permeable façade coatings with fast re-drying after precipitation and dew for extreme weather resistance and permanently low soiling tendency on the façade.

### Material Properties

- Protected against algae and fungal attack
- 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 goods / factory tinting: 25 l, 120 l  
ColorExpress: 12.5 l

### Colours

White.

Further colour shades can be tinted via "ColorExpress". Available tinted at the factory for orders of 100 litres and more in one colour shade and application.

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 observe the guidelines on inspection obligations for delivery of tinted products of the "Verband für Dämmsysteme, Putz und Mörtel e.V. (VDPM)" (Association for Insulation Systems, Plaster and Mortar): Brochures and leaflets - VDPM.

Only use colour shades of one production (batch) on continuous surfaces. "AmphiSilan" can also be tinted with suitable "AmphiColor Volltonfarben". 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)

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 V<sub>1</sub> (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> (niedrig)  
Due to tinting, there are deviations in the technical characteristics possible.

Supplementary Product

"AmphiSilan"  
"Capatect AmphiSilan Fassadenputze"  
"CapaGrund Universal"  
"Dupa-Putzfestiger"  
"OptiSilan TiefGrund"

Suitability according to  
Technical Information No. 606  
Definition of Application Areas

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
–	–	–	+	+
(–) not suitable / (○) conditionally suitable / (+) suitable				

## Application

Suitable Substrates

The substrates must be free from dirt, separating substances and dry. 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

**New and existing, intact external thermal insulation composite systems (ETICS) with surfaces made of synthetic resin, silicone resin, lime-cement render/ solid mortar class according to DIN EN 998-1 class CS II 1.5 - 5.0 N/mm<sup>2</sup>:**

Old renders can be wet cleaned using a suitable method. When cleaning, use pressure water jets with a max. temperature of 60 °C and a max. pressure of 60 bar. Allow sufficient drying time after cleaning. Apply coatings of Caparol materials according to the existing finishing render type and the following substrate specifications.

**Finish renders according to DIN EN 998-1 class CS II 1.5 - 5.0 N/mm<sup>2</sup>:**

New renders are to be applied after sufficient standing time, usually after 2 weeks, at approx. 20 °C and 65 % rel. Humidity, they can be coated. In case of unfavourable weather conditions, e.g. influenced by wind or rain, significantly longer standing times must be observed. By applying an additional priming coat of "CapaGrund Universal" reduces the risk of lime efflorescence with alkaline finishing renders, so that coating can be applied after a standing time of only 7 days.

**Old renders:**

Renewd renders/ touch-ups must be well set and dried. Prime coarsely porous, absorbent, slightly sanding plasters with OptiSilan TiefGrund. Prime very sandy, chalky plasters with Dupa-Putzfestiger.

**New silicate finishing renders:**

Prime with Sylitol® NQG-W facade paint.

**New silicate finishing renders:**

Coat with products from our silicate Sylitol® products.

**Old mineral paints and renders:**

Clean firmly adhering coatings mechanically or by pressure water jetting in compliance with the legal regulations. Remove non-sticking, weathered coatings by scraping, sanding, scraping off. Apply one priming coat of "Dupa-Putzfestiger".

**Load-bearing/ stable dispersion plaster and silicone resin plaster coatings:**

Clean old renders with a suitable method. In case of wet cleaning, allow the surfaces to dry thoroughly before further treatment. Prime with "CapaGrund Universal" or "Dupa-Putzfestiger". Coat new synthetic resin or silicone resin renders without pre-treatment.

**Sound dispersion, dispersion-silicate or silicone resin paint coatings:**

Clean old coatings by pressure water blasting in compliance with the legal regulations. Observe substrate test according to BFS\* Leaflet No. 20.

**Old coatings with the following properties :**

Weakly absorbent, solid, dry, load-bearing:  
See coating structure.

Moderately absorbent:

"CapaGrund Universal" diluted with max.3% water.

Highly absorbent:

"OptiSilan TiefGrund" or "Dupa-Putzfestiger".

**Old coatings on ETICS:**

Highly absorbent, firmly adhering, fine hairline cracks:  
Dupa-Putzfestiger.

**Chalking or powdery:**

(also under water load following BFS\* No. 20, B.13 "Oberflächenfestigkeit, Kreidung"(Surface strength, chalking)):

Prime with "Dupa-Putzfestiger".

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

Mechanically roughen. Prime with "CapaGrund Universal". If water beading is still present after mechanical roughening, we recommend a priming coat of "Dupa-HaftGrund".

**Non-bearing paint and render coatings:**

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

**Facing brickwork:**

Only frost-resistant facing bricks or clinker without foreign inclusions are suitable for painting. The masonry must have crack-free joints and be free of salt. Prime with "Dupa-Putzfestiger". Intermediate coat with "Minera Universal". If brown discolouration occurs after the intermediate coat with "Minera Universal", apply the final coat with "Duparol".

**Sand-lime brickwork:**

Only frost-resistant facing bricks that do not contain any driving or discolouring foreign inclusions such as sand or clay are suitable for painting. The jointing must be free of cracks. Clean chalking/flouring surfaces. Brush off salt efflorescence dry. Please observe BFS\* Leaflet No. 2. Prime with "OptiSilan TiefGrund". Intermediate coat with "Minera Universal".

**Surfaces with salt efflorescence:**

Remove salt efflorescence dry by brushing. Apply one priming coat of "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 "Caparol Fassaden-Feinspachtel". Large defects up to 20 mm should preferably be repaired with "Histolith-Renovierspachtel". Re-priming of filler areas.

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Method of Application

**Only to be applied with special Nespray airless equipment:**

Spray application with Nespri nozzles for facade coating (spraying & re-rolling):

- 20° double nozzle 215 (for trimming work)
- 30° double nozzle 317 (for smooth substrates)
- 30° double nozzle 319 (for rough substrates)

The product temperature is automatically controlled by the Nespray airless unit.

Spray pressure (opened pistol) of "Nespri-Airless unit" is in the green marked field of indicator (manometer/pressure gauge).

When using the "NespriKIT-Schlauchtrommel" (hose reel) the spray pressure must be adjusted on the particular airless unit, on the responsibility of the workman.

Other coating materials, in particular primers, can also be applied with the Nespray airless unit, but a spray dust reducing (mist-free) effect cannot be guaranteed. Apply those materials with corresponding precautions.

Surface Coating System

Apply intermediate and top coat undiluted with the special Nespri equipment and immediately re-roll evenly with a commercial facade roller.

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	<p>In the case of well-maintained, load-bearing old coatings, a single overcoat with a minimum consumption of 350 ml/m<sup>2</sup> is sufficient in many cases. Allow at least 12 hours drying time between coats.</p>
Consumption	<p>approx. 200-250 ml/m<sup>2</sup></p> <p>The consumption values apply to one coat on a smooth surface. On rough surfaces, the consumption increases accordingly. Determine exact consumption by trial coating.</p> <p>To achieve the best possible protection against algae and fungal attack, it is necessary to apply two coats with a total of at least 400 ml/m<sup>2</sup> to achieve an average layer thickness of at least 200 µm.</p>
Application Conditions	<p><b>Lower temperature limit during application and drying:</b> Material, circulating air and substrate temperature: min. + 5° C to max. + 30° C.</p>
Drying/Drying Time	<p>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. Lower temperatures and higher humidity extend the drying time.</p>
Tool Cleaning	<p>Clean work equipment with water after use, observing the legal regulations.</p>
Note	<p>To avoid laps, coat larger surfaces 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 façade surfaces that are exposed to higher than usual moisture loads under special object conditions or due to natural weather influences.</p> <p>In the case of dark colour shades, mechanical stress can lead to light streaks (writing effect). AmphiSilan reduces this characteristic, which is specific to all matt facade paints.</p> <p>In the case of dense, cool substrates or in the case of drying delays due to weather conditions, auxiliary substances may form yellowish/transparent, slightly glossy and sticky run-off marks on the surface of the coating due to exposure to moisture (rain, dew, fog). These auxiliary substances are water-soluble and are removed independently with sufficient water, e.g. after several heavy rainfalls. The quality of the dried coating is not adversely affected by this. If, nevertheless, a direct recoating should be carried out, the runners/auxiliary materials must be pre-wetted and washed off completely after a short exposure time. Apply an additional priming coat of "CapaGrund Universal". If the coating is applied under suitable climatic conditions, these run-off marks will not occur.</p> <p>Markings of touch-ups/ repairs in the surface depend on many factors and are therefore unavoidable (observe BFS* Leaflet No. 25).</p> <p>Copper run-off (CU ions in rainwater) reacts with ingredients of AmphiSilan to form brownish discolourations. Therefore, corresponding copper surfaces must be protected against oxidation. Alternatively, our products "ThermoSan NQG" or "Muresko" can be used.</p> <p>*Bundesausschuss Farbe und Sachwertschutz (German committee dealing with paint and protection of properties)</p>

## Advice

Please Note (Status as at Date of Publication)	<p>May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing mist or vapors. 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. Contains: 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Disposal: Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities. Hotline for allergy enquiries: 0800/1895000 (free of charge from the German landline network).</p>
Disposal	<p>aterials 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>In Germany: Dispose of liquid material residues at the collection point for old paints/lacquers, dispose of dried material residues as construction and demolition waste or as municipal or household waste.</p>
EU limit value for the VOC content	<p>(Cat. A/c): 40 g/l (2010). This product contains max. &lt; 30 g/l VOC.</p>
Product Code Paints and Enamels	<p>BSW20</p>
Substances of Content - Declaration	<p>polyacrylic resin, silicone resin, polysiloxane, hybrid binder (Organo-silicate / acrylate), silicates, titanium dioxide, mineral pigments / fillers, water, glycol ethers, glycols, additives, Preservative.</p>
Technical Assistance	<p>All substrates that occur in practice and their technical processing cannot be dealt with in this brochure. If substrates are to be treated that are not listed in this Technical Information, it is necessary to consult with us or our sales representatives. We will be happy to provide you with detailed and object-related advice.</p>

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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.143 · AmphiSilan Nespri · Issued: September 2022

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