

# AmphiSilan-Fassadenputze R & K

Ready-to-use, silicone resin-bound textured renders / plasters for facades.



## Product Description

### Field of Application

Ready-to-use, textured silicone resin-bound renders/plasters.

Applicable as finishing coatings for:

- Capatect ETICS / EWI System B
- Capatect-VHF (Cladding) System
- Uncoated concrete
- Mortar layers of mortar groups P II + P III to DIN V 18 550
- Sound, matt coatings of dispersion paint
- Sound existing silicate coatings

Unsuitable are substrates showing efflorescence and substrates made of plastic or wood/timber.

### Properties

- Fire behaviour: German classification “schwerentflammbar” (hardly combustible - of low flammability) B1 – DIN 4102. DIN EN 13 501
- Highly water vapour permeable.
- Weatherproof, water-repellent.
- Elegant application.
- Ecologically compatible, low odour.
- Binder/vehicle: silicone resin.
- Graded, light-fast pigment-filler-resin (aggregate) combination.
- Water-thinnable.
- This product is provided with a preservative against deterioration in the coating due to algae and fungal/mildew attack.

### Technical Data

- Coefficient of water absorption:  $w < 0.2 \text{ kg} / (\text{m}^2 \cdot \text{h}^{0.5})$  to DIN EN 1062-3
- Diffusion equivalent air layer thickness: Max. 0.4 m on adhesive Capatect 190 to DIN EN ISO 7783-2



## Texture / Particle Size / Consumption

Product	Texture	Particle Size (mm)	Approx. Consumption (kg/m <sup>2</sup> )
<b>AmphiSilan-Fassadenputz R 20</b>	corrugated render texture	2.0	2.6
<b>AmphiSilan-Fassadenputz R 30</b>	corrugated render texture	3.0	3.5
<b>AmphiSilan-Fassadenputz K 15</b>	scratch/plate render texture	1.5	2.5
<b>AmphiSilan-Fassadenputz K 20</b>	scratch/plate render texture	2.0	3.2
<b>AmphiSilan-Fassadenputz K 30</b>	scratch/plate render texture	3.0	4.1

The exact rate of consumption is best established by a trial coating. This indication does not take into account usage for spilling or loss on site. The figure may also vary according to substrate or application conditions.

### Gloss Level

Matt

### Colours

White.

Can be tinted by the manufacturer according to colour cards CaparolColorSystem or Caparol 3D System plus.

Can be tinted via ColorExpress system.

Further shades with luminosity > 20 can be tinted on request. (Luminosity < 20 is unsuitable for use on ETICS / EWI systems)

Luminosity ≥ 15 can be achieved using reinforcement material CarboNit or CarbonSpachtel.

Small quantities can be tinted with CaparolColor or Amphibolin colourants, but max. 2 %, otherwise the consistency will become too low.

### Consistency

Paste-like

### Packaging

- 25 kg bucket

### Storage

Cool, dry, frost-free and protected against direct sunlight.

## Application

### Substrate Preparation

The substrate must be even, clean, dry, solid, sound/stable, and free from all substances that may prevent good adhesion. In Germany follow VOB, part C, DIN 18 363, paragraph 3.

Remove unsound coatings of enamels, dispersion paints, synthetic renders/plasters and unsound mineral paint coatings completely.

Clean sound, adherent paint coatings dry or wet.

Clean surfaces infested with organic growth (mildew/mould, moss, algae attack) with a high-pressure water jet in compliance with the regulations. Then treat the surface with Capatox and allow to dry thoroughly.

Clean surfaces contaminated with industrial gases or soot by high-pressure cleaner, adding suitable cleaning agent, in compliance with the regulations.

### ■ Surface Coating System

Priming material Putzgrund 610 -used for first or intermediate coat- must be tinted to match the finishing coat in shade, provided that a tinted finishing coat has to be applied. Allow first or intermediate coats to dry before any further application.

### Capatect-ETICS/EWI System B and Capatect-VHF (Cladding) System:

*New mineral mortars (reinforcement layers):*

– Prime with Putzgrund 610.

*New cement-free reinforcement layers:*

– No priming coat required.

– Prime weathered reinforcement layers (e.g. after winter period) with Putzgrund 610.

### Rendering of Mortar Groups P II and P III:

New renders/plasters can normally be coated after having cured for a sufficiently long time (at 20 °C and 65% relative humidity: 2 weeks). Respect correspondingly longer idle periods in case of adverse weather conditions, e.g. influenced by wind or rain.

An additionally applied priming coat of CapaGrund Universal minimizes the risk of calcareous efflorescence and the render / plaster coating may be coated after having respected a waiting time of 7 days.

### Existing Renders / Plasters:

Allow repaired areas to cure and dry thoroughly.

Apply a priming coat of OptiGrund E.L.F. on highly porous, absorbent and slightly sanding surfaces.

Apply an intermediate coat of Putzgrund 610.

Apply a priming coat of Dupa-grund on highly sanding, chalking surfaces.

Apply an intermediate coat of Putzgrund 610.

### Uncoated Concrete:

Concrete surfaces with deposits of dirt or fines / sintered layer, must be cleaned mechanically or with high-pressure cleaner, in compliance with the regulations.

Apply a priming coat of OptiGrund E.L.F. on highly porous, slightly sanding or absorbent surfaces.

Prime chalking surfaces with Dupa-grund.

Apply an intermediate coat of Putzgrund 610.

### Matt, Sound Dispersion Paint Coatings:

Matt, slightly absorbent coatings may be coated without any pre-treatment.

Clean existing soiled, chalking layers with high-pressure cleaner, in compliance with the regulations.

Apply a priming coat of Dupa-grund, when other cleaning methods are used (washing or brushing off).

Apply an intermediate coat of Putzgrund 610.

### Sound Silicate Paint Coatings:

Coat with Sylitol or AmphiSilan materials.

### Cracks in Plasters/Renders & Concrete:

Coat with Cap-elast.

### ■ Preparation of Material

Stir the material thoroughly with a low-speed electric stainless steel paddle.

If necessary adjust to working consistency with tap (potable) water, max. 1% if manually applied, max. 2% for spray application.

### ■ Method of Application

Apply the textured render/plaster with stainless steel trowel or suitable spraying equipment homogeneously to the complete surface and immediately rub down to the particle/grain size.

Directly after that treat the K-type scratch/plate-texture renders/plasters evenly with a plastic trowel or PU-board, by circularly »ironing«, and texture the R-type materials horizontally, vertically or circularly, as desired.

The surface roughness profile is influenced by the chosen tool, hence always the same type of texturing tool should be used.

For spray application the nozzle size depends on particle sizes.

Working pressure: 0.3 to 0.4 MPa (3 to 4 bar).

Apply thoroughly an even layer during spray application and avoid overlapping that may be caused by storeys of scaffolding.

To achieve an even texture always the same craftsmen should work on a surface.

To avoid lapping on large area surfaces, care should be taken to have a sufficient number of hands/craftsmen on the job and to apply the material wet-on-wet without interruption.

Being natural products, the granular materials used in the render/plaster finishes, may occasionally cause slight colour variation in the finished coating.

Use only material marked with identical batch numbers or, if utilising material from different batches, mix the entire quantity needed in advance.

### ■ Working Temperature

The temperature for material, substrate, water and ambient air should not fall below + 5 °C and not exceed approx. 30 °C during application and drying period.

Do not apply in direct sunlight, during strong wind, fog, high relative humidity, and imminent rain or frost.

### ■ Drying / Drying Times

At 20 °C and 65% relative humidity surface-dry after approx. 24 hours. Completely dry, recoatable and ready for stress after 2 to 3 days.

The render/plaster dries physically, i.e. by evaporation of water.

Lower temperatures and higher relative humidity extend the drying times.

If necessary, cover the scaffoldings with tarpaulins to protect the surface from rain during the drying phase.

## Advice

### ■ Cleaning of Machines & Tools

Clean immediately after use with water.

Do not apply AmphiSilan façade renders/plasters on horizontal surfaces exposed to rain or moisture.

### ■ 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 of containers with residues of liquid material as remnants of water-based paints and dried material as dried paints waste or via domestic waste.

European Waste Code (EWC) 08 01 12

### ■ Special Risks and Safety Advice

Harmful to aquatic organisms, may cause longterm 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 or onto the ground. If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria. In case of spray application: Do not breathe spray dust.

German product code paints and enamels: M-SF01

### ■ Safety Data / Transportation

See Material Safety Data Sheets.

### ■ Customer Service Centre

☎ (+49) 06154 / 711710

Fax No.: (+49) 0 6154 / 711711

e-mail: kundenservicecenter@caparol.de

### ■ International Distribution

Please see [www.caparol.com](http://www.caparol.com)



## Technical Information No. 626 · Revised: November 2009

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. 626 · AmphiSilan-Fassadenputze R und K · Issued: April 2009

**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.  
**CAPAROL Farben Lacke Bautenschutz GmbH** · Roßdörfer Str. 50 · D-64372 Ober-Ramstadt · Tel. + 49 (061 54) 71-17 77 · Fax + 49 (061 54) 71-13 51 · Internet [www.caparol.com](http://www.caparol.com)  
**Berlin Office** · Schnellerstraße 141 · D-12439 Berlin · Tel. +49 (030) 63 94 62 46 · Fax +49 (030) 63 94 62 88

DAW International Business: **Deutsche Amphibolin-Werke von Robert Murjahn Stiftung & Co KG** · P.O.B. 1264 · D-64369 Ober-Ramstadt · Tel. +49 (061 54) 71-12 74  
Fax +49 (061 54) 71-12 64 · E-mail [export@daw.de](mailto:export@daw.de) · Internet [www.caparol.com](http://www.caparol.com)

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