

Muresko

Universal silanised pure acrylate facade paint based on SilaCryl[®], diffusive and highly water-repellent with a wide range of colours.



Product Description

Field of Application

Facade paint for a wide variety of substrates. Can be used on intact external thermal insulation composite systems (ETICS), load-bearing emulsion paint coats, organically bound renders, mineral substrates, concrete, fibre cement, exposed brickwork, aerated concrete, cement-bonded chipboard and many more.

Depending on the dilution, Muresko allows structure-preserving or structure-levelling coatings. Especially suitable for the renovation of load-bearing old aerated concrete coatings and on aerated concrete assembly components.

Material Properties

- Innovative, proven and particularly effective SilaCryl[®] binding agent
- Highest colour shade diversity
- Versatile application
- Film protection against algae and fungal growth
- Very good adhesion to most façade surfaces
- Alkali-resistant, therefore unsaponifiable

Material Base / Vehicle

Silane-modified pure acrylate (silicone-modified) based on SilaCryl[®] binder

Packaging/Package Size

- **Standard product:** 2.5 l, 5 l, 12.5 l
- **ColorExpress:** 1.25 l, 2.5 l, 5 l, 7.5 l, 12.5 l

Colours

White.

Further colours are available via ColorExpress. Factory tinted available for orders of 100 litres or more in one colour and order. The material can be tinted with suitable CaparolColor full-tone and tinting colours or AmphiColor full-tone and tinting colours.

Before processing, check the material for colour accuracy and quality. Complaints regarding deviations from the delivery specifications cannot be accepted after processing. Please refer to the VDPM's "Leitfaden zu Prüfpflichten bei Anlieferung von Tönware im Rahmen der Untersuchungs- und Rügepflicht (§ 377 HGB)" ('Guidelines on inspection obligations for the delivery of coloured goods within the scope of the obligation to inspect and give notice of defects, § 377 of the German Commercial Code HGB').

Only process material from the same batch on contiguous surfaces or mix material from different batches beforehand.

For intense and poorly covering colours, we recommend a base coat in the appropriate Caparol primer system colour, or alternatively a pastel, white-based base coat comparable to the desired colour or a pigmented primer.

An additional top coat may be necessary.

Colour fastness according to BFS-leaflet No. 26:

Class: A

Group: 1-3, depending on shade



- Gloss Level** Reflectometer value:
Class G₃ (matt) according to DIN EN 1062-1
Measuring angle 85°, requirement ≤ 10
- Storage** Store in a cool, frost-free place and avoid large temperature fluctuations. Protect from direct sunlight.
Keep opened containers tightly closed.
Can be stored for at least 24 months in the original sealed packaging.

- Technical Data**
- Density: $\rho \approx 1.5 \text{ g/cm}^3$
 - Maximum grit size: Class S₁ (fine) according to DIN EN 1062-1
S < 100 µm according to EN ISO 1524
 - Dry film thickness: Class E₃ according to DIN EN 1062-1
E = > 100 – ≤ 200 µm according to ISO 3233
 - Water permeability (w-value): Class W₃ (low) according to DIN EN 1062-1
W ≤ 0.1 kg/(m²h^{1/2}) according to DIN EN 1062-3
 - Water vapour permeability (sd-value): Category V₂ (medium) according to DIN EN 1062-1
s_d ≈ 0,5 m according to EN ISO 7783-2

- Supplementary Product** *OptiSilan TiefGrund, CapaSol RapidGrund, CapaSol Konzentrat, FungiGrund, Muresko Nespri*
- Caparol *Trocknungsbeschleuniger*. Winter additive for processing and early rain resistance of Muresko at low temperatures from +1 °C to approx. +10 °C.

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

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
–	–	–	+	+
(–) inapplicable / (○) of limited suitability / (+) suitable				

Application

- Suitable Substrates**
- Mineral substrates, e.g. renders from CS II according to DIN EN 998-1 (compressive strength min. 1.5 N/mm²) or from PII according to DIN 18550, concrete, exposed masonry, fibre cement, cement-bonded wood fibre boards
 - Pasty (organic) renders and coatings based on dispersion, silicone resin and dispersion silicate

The substrate must be solid, load-bearing, free of contamination, separating substances and dry. Observe VOB, Part C, DIN 18363, Section 3. To achieve colour-uniform coatings, ensure that the substrate has uniform absorbency.

The substrate must be checked in accordance with information sheets no. 20 and 20.1 issued by the German Federal Committee for Paint and Material Protection (Bundesausschuss Farbe und Sachwertschutz e.V.).

The cause of cracks in substrates must be identified and cracks repaired appropriately depending on the type and extent of the cracks.

Please refer to Caparol Technical Information No. 650 "Untergründe und deren Vorbehandlung" ('Substrates and their pre-treatment').

- Substrate Preparation** The following information is provided as examples and is not exhaustive. The coating is applied after any necessary substrate preparation.

Protective measures:

Carefully cover glass, ceramics, clinker, natural stone, lacquered, glazed, anodised and other surfaces to be protected. Remove splashes immediately with water.

Cleaning the substrates:

Clean dirty areas and remove any loose layers using a suitable method. Observe legal requirements. Allow sufficient drying time after treatment with water.

Possible methods (not exhaustive):

- Dry cleaning: sweeping, brushing.
- Pressure washing: max. temperature 60°C, max. pressure 60 bar.
- Mechanical cleaning: pickling, grinding, scraping, local dismantling, etc.

The **waiting time** before new renders can be reworked depends, among other things, on weather conditions and the layer thickness. It is longer at low temperatures and high humidity. The information is based on 20 °C and 65 % relative humidity and is provided for guidance only.

New mineral renders:

- Guideline: at least 1 day per mm of total layer thickness of base and top coat, but at least 14 days. Longer waiting times reduce the risk of lime efflorescence.
- A coats with *CapaGrund Universal* reduces the risk of lime efflorescence in mineral top coats, meaning that the top coat can be applied after a minimum of 7 days. Alternatively, mineral renders can be coated with *Sylitol Finish 130(-W)*.
- Specially tinted colours may require additional measures (e.g. longer standing times for the render substrate, priming with *CapaGrund Universal (-W)*, weather protection).

New paste-like renders:

Repaint after complete drying, at the earliest after 2-3 days.
If necessary, apply a base coat with *CapaGrund Universal*.

Old mineral renders, concrete, mineral coatings:

Slightly absorbent, smooth: Prime coat with *CapaGrund Universal*.

Coarse, porous, absorbent, slightly sandy: Prime coat with *OptiSilan TiefGrund* or *CapaSol RapidGrund*.

Heavily sandy, chalky: Prime coat with *OptiSilan Tiefgrund* or *Dupa-Putzfestiger*.

Old, pasty, matt coatings:

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

Highly absorbent, chalky, sandy: Base coat with *OptiSilan TiefGrund* or *Dupa Putzfestiger*.

If necessary, apply an intermediate coat with *CapaGrund Universal*.

Shiny and water-repellent (hydrophobic) surfaces:

Roughen mechanically if necessary. **Apply a base coat of CapaGrund Universal.**

If water still beads after mechanical roughening, we recommend applying a base coat of *Dupa-HaftGrund*.

Render/concrete with sintered layer, render repairs:

Coat with *Histolith Fluat* and rinse.

Repaired render must be well bonded and dry.

Concrete with requirements according to DIN EN 1504-3:

Please refer to the *Disbon* product range.

Cracked render or concrete surfaces:

Identify the cause of cracks in substrates and repair cracks appropriately depending on the type and extent of the crack. Depending on the crack class, coat with *FibroSil*, *PermaSilan* or the *Cap-elast* system.

Areas affected by fungus or algae:

Clean areas affected by fungus or algae using wet blasting in accordance with legal regulations. Once dry, pre-treat with *Capatox* in accordance with the manufacturer's instructions. Prime absorbent substrates with *FungiGrund*.

Salt efflorescence, moisture:

Mineral salts cause premature destruction of coatings. Brush off efflorescence until dry. When coating surfaces with salt efflorescence and (rising) moisture, no guarantee can be given for the permanent adhesion of the coating or the prevention of salt efflorescence.

Please refer to the *Histolith* product range.

Aerated concrete with load-bearing old coating:

A base coat with *CapaGrund Universal* is recommended. For aerated concrete coatings that are not intact, follow the Caparol Building Protection Programme.

Exposed brickwork:

Only frost-resistant facing bricks or clinker bricks without foreign inclusions are suitable for coatings. The masonry must be free of cracks, dry and salt-free.

Apply a base coat of *Dupa-Putzfestiger*. If brown discolouration appears in the intermediate coat, continue with the water-free *Duparol Fassadenfarbe*.

Fibre cement panels:

Clean if necessary, remove less resistant layers in accordance with legal requirements. For coatings on fibre cement panels, observe BFS data sheet no. 14. Uncoated, non-load-bearing panels containing asbestos must no longer be treated with paint in accordance with the Hazardous Substances Ordinance (GefStoffV). For asbestos fibre-containing panels with existing load-bearing old coatings, also observe TRGS 519.

Cement-bonded wood chip boards:

Prime with *Disbon 481 EP-Uniprimer* to prevent lime efflorescence.

Method of Application

To avoid lapping, coat wet-on-wet in one go.

Application with brush/roller

Stir the material well.

Airless spraying process

Stir the material well and strain it.

Spray angle: 50°

Nozzle: 0.021' – 0.023'

Spray pressure: 150 – 180 bar

Gun filter: 60 mesh

We recommend lightly rolling the wet coating with a roller.

Mist-free application is not guaranteed. Spraying is only permitted in compliance with environmental and occupational safety regulations.

Spray mist-free application with Nespri devices

For airless application of *Muresko*, we recommend the mist-free Nespri spray method with *Muresko Nespri* facade paint.

Surface Coating System	<p>Primer coat: If necessary, apply primer coat(s) as part of substrate preparation.</p> <p>Application with brush/roller Base coat or intermediate coat: diluted with max. 10 % water. Final coat: diluted with max. 5% water.</p> <p>To maintain the structure on rough render surfaces, dilute the base coat with max. 15–20% water and the top coat with max. 10% water.</p> <p>Airless spray application Primer or intermediate and top coats: diluted with max. 5% water.</p>
Consumption	<p>■ Approx. 200 ml/m² per coat on smooth surfaces. Use more on rough surfaces. Determine exact consumption by applying a test coat.</p> <p>To achieve the best possible protection against algae and fungal growth, it is necessary to apply two coats with a total of at least 400 ml/m². The average layer thickness should be at least 200 µm. Each additional coat with a consumption of at least 200 ml/m² increases the layer thickness by approx. 100 µm.</p>
Application Conditions	<p>During the application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +30 °C.</p> <p>Do not apply in direct sunlight, strong wind, fog or high humidity. Please refer to the leaflet "Verputzen, Wärmedämmen, Spachteln, Beschichten bei hohen und tiefen Temperaturen" (Rendering, Thermal Insulation, Filling, Coating at High and Low Temperatures) from the Bundesverband Ausbau und Fassade (Federal Association for Finishing and Façades).</p> <p>In unfavourable weather conditions, take suitable measures to protect the facade surfaces being treated.</p>
Drying/Drying Time	<p>Base- or intermediate coats must be dry and render must be sufficiently set before further processing.</p> <p>The waiting time before recoating depends, among other things, on weather conditions and the thickness of the coat. It is longer at low temperatures and high humidity. The information is based on 20 °C and 65 % relative humidity and is intended as a guide.</p> <p>■ Surface dry after approx. 3 hours ■ Can be painted over after approx. 6 hours ■ Completely dry and resistant to stress after approx. 3 days</p>
Tool Cleaning	Rinse with water immediately after use in accordance with legal regulations.
Note	<p>Facade surfaces that are exposed to higher than normal moisture levels due to special conditions or natural weathering are at increased risk of mould and algae growth. Permanent prevention of mould and algae growth cannot be guaranteed. The deposit of active substances against microbiological attack in coatings provides long-lasting but temporary protection.</p> <p>For light reflectance values (HBW) below 20, the render in ETICS must be coated with a solar-reflective facade paint with a TSR value ≥ 25 (CoolProtect) in at least two coats after thorough drying, depending on requirements.</p> <p>On rendered, solid, highly thermally insulated wall structures, special measures must be taken for LRV < 30, e.g. an additional reinforced base coat with full-surface fabric insert on the lightweight render, and for LRV < 20, an additional solar-reflective facade paint with TSR ≥ 25.</p> <p>On intact aerated concrete coatings, the HBW should not fall below 20% with a TSR value of ≥ 30. Please note the limits of feasibility in the respective system structure.</p> <p>With dark colours, mechanical stress on the surface can lead to light streaks (writing effect). This is a product-specific property of all matt to silk matt facade paints and does not affect the product quality or functionality.</p> <p>On dense, cool substrates or if drying is delayed due to weather conditions, moisture (rain, dew, fog) can cause additives to form yellowish/transparent, slightly shiny and sticky flow marks on the surface of the coating (emulsifier streaks). These auxiliary substances are water-soluble and are removed automatically with sufficient water, e.g. after several heavy rainfall. This does not adversely affect the quality of the dried coating. If direct reworking is nevertheless necessary, the flow marks/auxiliary materials must be pre-wetted and washed off completely after a short exposure time. An additional primer coat with CapaGrund Universal is recommended.</p> <p>Repairs / variations on the surface may be more or less visible, even when using the original coating material. According to BFS data sheet 25, variations are unavoidable. Whether a variation is considered visually disturbing depends on many factors such as colour tone, gloss level, layer thickness, substrate, lighting, etc.</p> <p>Protect horizontal surfaces constructively (e.g. by sheet metal cladding).</p>

Advice

German Certificates

Warning. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Always follow the information on the product label.

Technical Assistance

This document cannot cover all substrates encountered in practice and their technical treatment. If substrates are to be treated that are not listed in this technical information, it is necessary to consult us or our sales representatives. We will be happy to provide you with detailed and project-specific advice.

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