

Muresko SilaCryl®

Universally applicable, silicone resin facade paint based on SilaCryl® with mineral characteristics. Highly diffusion-capable and water-repellent.



Product Description

Field of Application	<p>For high-quality exterior coatings on smooth and textured substrates. The SilaCryl® base provides excellent moisture proofing, high water vapour permeability and sufficient CO₂ permeability. In addition it provides for the same colour diversity, weather resistance, chalking stability and adhesive strength as high-quality pure acrylic based paints.</p> <p>On roughly textured renders Muresko provides texture preservation or texture equalisation, depending on the degree of dilution. Particularly suitable for the renovation of stable existing coats on AAC (autoclaved aerated concrete)/cellular concrete prefab parts.</p>
Material Properties	<ul style="list-style-type: none"> ■ Water-dilutable, ecologically compatible, low odour. ■ Weather-resistant. ■ Water-repellent according to German standard DIN 4108. ■ Alkali-resistant, hence unsaponifiable. ■ Easy to apply. ■ Excellent covering of edges. ■ This product is provided with an encapsulated preservative against deterioration in the coating film due to algal and fungal attack.
Material Base / Vehicle	Silicone resin + pure acrylate dispersion/emulsion.
Packaging/Package Size	<ul style="list-style-type: none"> ■ Standard Product: 2.5 l, 5 l and 12.5 l ■ ColorExpress: 1.25 l, 2.5 l, 5 l, 7.5 l and 12.5 l
Colours	<p>White.</p> <p>Muresko is tintable with CaparolColor or AmphiColor® (AVA) colourants. If more than one bucket is manually tinted, all product must be thoroughly mixed before use in order to avoid colour differences. Quantities of 100 litres or more in individual colours can be ordered ready-tinted ex factory. Muresko can be tinted to all current colour collections via the ColorExpress tinting & mixing machine system. Check tinted product before applying in order to avoid colour differences. Always use tinted paint of same batch, when applying on seamless surfaces.</p> <p>When colour shades with a lower opacity (hiding power) are used, e.g. red, orange or yellow, it is advisable to apply a prime coat (undercoat) of Muresko or CapaGrund Universal, tinted in a matching priming system colour, available via ColorExpress. Possibly a second finishing coat may be necessary.</p> <p>Colour Resistance according to BFS Data Sheet No. 26: Class: B Group: 1 to 3, depending on the colour</p>
Gloss Level	Matt (flat), G ₃



Storage
Technical Data

Keep in a cool, but frost-free place.

Characteristics according to DIN EN 1062:
Tinting may cause variations.

- Density: Approx. 1.5 g/cm³
- Maximum grit size: < 100 µm, S₁
- Dry film thickness: 100 – 200 µm, E₃
- Water permeability (w-value): ≤ 0.1 [kg/(m² · h^{0.5})] (low) W₃
- Water vapour permeability (sd-value): < 0.14 m (high), V₁

Supplementary Product

Caparol Trocknungsbeschleuniger / Drying Accelerator

Additive to be used at low temperatures from +1 °C up to approx. +10 °C.
Application: Follow the product label.

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

The substrate must be sound/stable, dry, clean, and free from all substances that may prevent good adhesion. In Germany: Follow VOB, part C, DIN 18363, section 3.

Substrate Preparation

New and Existing, Stable ETICS/EWI Systems with Surfaces of Synthetic Resin-Bound (Organic) Render/Plaster, Silicone Resin Render/Plaster and Lime Cement Plaster (PII) / Minimum Compressive Strength according to DIN EN 998-1: 1.5 N/mm²:

Clean existing renders/plasters by suitable wet cleaning method. Maximum temperature for high pressure water jet: 60 °C. Pressure: max. 60 bar. Allow to dry thoroughly. Coat with Muresko according to the type of existing finish render/plaster and details as mentioned below.

Renders/Plasters in Mortar Groups/Classes PII (Lime-Cement Mortars), PIII (Cement Mortars) / Minimum Compressive Strength according to DIN EN 998-1: 1.5 N/mm²:

New renders/plasters must be left untreated for a sufficiently long time, normally for 2 weeks at 20 °C and 65 % relative humidity. Adverse weather conditions, e.g. influenced by wind or rain, extend the curing process and correspondingly longer holding times must be respected. The risk of calcareous efflorescence on alkaline finish renders of mortar classes PII and PIII can be minimised by an additional priming coat of CapaGrund Universal and the finishing render/plaster can be coated after a holding time of 7 days.

Existing renders/plasters: Repairs must have adequate time to cure and dry. On highly porous, absorbent, slightly sanding renders/plasters apply one priming coat of OptiGrund. Prime highly sanding, chalking substrates with Dupa-grund or use AmphiSilan-Putzfestiger on ETICS/EWI systems with EPS boards.

New Coatings of Silicate Finish Renders:

Prime with products from our silicate Sylitol® product line.

Existing Coatings of Silicate Paints and Renders:

Clean adherent, sound/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. Prime with AmphiSilan-Putzfestiger.

Autoclaved Aerated Concrete (AAC) / Cellular Concrete with Stable Existing Coatings:

Clean stable surfaces and apply one priming coat of CapaGrund Universal. See our Disbon products for the renovation of unsound AAC coatings.

Concrete:

Concrete surfaces with dirt deposits or fines/sintered layer must be cleaned by mechanical means or with high-pressure water jet, in compliance with the regulations. Apply one priming coat of CapaGrund Universal on slightly absorbent or smooth surfaces. Apply one priming coat of AmphiSilan Tiefgrund or OptiGrund on highly porous, slightly sanding or absorbent surfaces. Prime chalking surfaces with Dupa-grund or AmphiSilan Putzfestiger.

Cement-Bound Wood Chipboards (Particle Boards):

Apply one priming coat of Disbon 481 EP-Uniprimer on highly alkaline cement-bound chipboards (particle boards) to prevent calcareous efflorescence.

Facing Brickwork:

Only clinker bricks of frost resistant quality and free of foreign inclusions are suitable for exterior paint coatings. Masonry must be dry and free of salts/salty efflorescence, jointing must be free of cracks. Apply one priming coat of Dupa-grund or AmphiSilan Putzfestiger. If brown discolouration appears on the intermediate coat, then recoat with solvent-based facade paint Duparol.

Sound/Stable Coats of Emulsion Paint:

Clean soiled, chalking coats of paint by high-pressure water jet, in compliance with the regulations. Apply one priming coat of CapaGrund Universal. Prime with Dupa-grund or use AmphiSilan-Putzfestiger on EPS insulation boards, if other cleaning methods are used (washing, wire brushing, hosing with water).

Sound/Stable Coatings of Synthetic Resin-Bound (Organic) or Silicone Resin Render:

Clean existing coatings by suitable means. Allow wet cleaned surfaces to dry thoroughly before further treatment.

Unstable Mineral Paint Coatings:

Remove completely by sanding off, brushing off, scraping off, using high-pressure water jet in compliance with the regulations, or treat with other suitable methods. Allow wet cleaned surfaces to dry thoroughly before further treatment. Prime with Dupa-grund or AmphiSilan Putzfestiger.

Unstable Coatings of Emulsion Paint or Synthetic Resin-Bound (Organic) Render:

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. Apply one priming coat of CapaGrund Universal on slightly absorbent or smooth surfaces. Prime chalking, sanding, absorbent surfaces with Dupa-grund or AmphiSilan Putzfestiger.

Surfaces Soiled by Factory Fumes or Soot:

Coat with solvent-based facade paint Duparol.

Cracks in Render/Plaster or Concrete:

Coat with PermaSilan or Cap-elast.

Surfaces with Salty Efflorescence:

Remove salty efflorescence thoroughly by dry wire brushing and prime with Dupa-grund or 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:

Repair small defects with Caparol Fassaden-Feinspachtel, deeper damages up to 20 mm preferably with Histolith-Renovierspachtel and prime repaired areas subsequently.

Method of Application

Apply with paint brush or roller.
For airless application it is advisable to apply Muresko Nespri-TEC, using the special Nespri-TEC spraying method.

Surface Coating System

Remove algal and fungal (fungi/mildew/mould) attack by wet blasting, in compliance with the regulations. Then use Capatox or FungiGrund and allow to dry well.

First or Intermediate Coat:

Muresko, diluted to a max. of 10 % with tap (potable) water.
For maintenance painting: In most cases an additional priming coat can be omitted, if max. 10% of AmphiSilan-Tiefgrund is added.

Finishing Coat:

Muresko, diluted to a max. of 5 % with tap water.
For keeping the texture of rough plaster: Dilute the first coat max. 15 % - 20 % and the finishing coat to a max. of 10 % with tap water.

Consumption

Approx. 200 ml/m² per coat on smooth substrates. On roughly textured surfaces correspondingly more. Determine the exact amount of material required by coating a test area on site.

Application Conditions

Lower Temperature Limit for Application and Drying:

+5 °C for product, substrate and ambient air.

Drying/Drying Time

At +20 °C and 65 % relative humidity surface dry and recoatable after 4 – 6 hours.
Completely dry and ready for stress after approx. 3 days.
Lower temperatures and higher humidity extend the drying time.

Tool Cleaning

Clean tools/equipment immediately after use with water.

Note	<p>The paint should not be applied on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain or frost, etc. To avoid lapping, the product should be applied wet-on-wet and without interruption. Do not apply on horizontal surfaces exposed to rain or moisture.</p> <p>Luminosity/lightness index (LI) should be above 30 for application on sound/stable AAC coatings and above 20 on stable ETICS/EWI systems. Facades in special climatic conditions (high moisture degree) or subjected to a higher influence of atmospheric exposure: This product is provided with an encapsulated preservative against deterioration in the coating film due to algae and mould/mildew growth (fungal attack) for prolonged – but not unlimited – protection, depending on the moisture degree and intensity of organic infestation. A permanent protection cannot be guaranteed. FungiGrund may be used instead of OptiGrund for substrate preparation on such infested substrates after having finished the cleaning procedure.</p> <p>Mechanical loads/scratching on matt facade paints in dark shades may produce bright-toned stripes as a product specific property (no writing resistance).</p> <p>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 cannot occur when the material is applied under suitable climatic conditions.</p> <p>Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: See BFS Data Sheet No. 25)</p>
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Advice

German Certificates	<ul style="list-style-type: none"> ■ Muresko SilaCryl Determination of water vapour permeability and water permeability rate ■ Muresko SilaCryl Efficiency against fungal and algal attack
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<p>Harmful to aquatic life with long lasting effects. Keep out of reach of children. If swallowed, seek medical advice immediately and show the container or label (intestinal bacteria can be affected). Do not empty into drains, water courses or into the ground. Use P2 dust filter for grinding. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Apply by brush or paint roller only. Further information: See Material Safety Data Sheet (MSDS).</p> <p>Contains: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. In Germany: Advice for allergy sufferers with isothiazolinone allergy: German hotline 0180/5308928 (0.14 €/minute from German landline, MTS max. 0.42 €/minute).</p> <p>According to European Regulation 528/2012 this product is defined as a “treated article” (not a biocidal product) and contains the following biocidal substances: Carbendazim (CAS-No. 10605-21-7), Isoproturon (CAS-No. 34123-59-6), Terbutryn (CAS-No. 886-50-0). 2-Octyl-2H-isothiazol-3-on (CAS-No. 26530-20-1).</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. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely empty containers must be handed in for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or domestic waste.</p>
EU limit value for the VOC content	of this product (category A/c): max. 40 g/l (2010). This product contains max. 20 g/l VOC.
Product Code Paints and Enamels	M-SF01F (Germany)
Substances of Content - Declaration	Polyacrylate resin/polysiloxane, titanium dioxide, calcium carbonate, silicates, water, film forming agent, additives, preservatives (methylisothiazolinone, benzisothiazolinone), film preservatives (Octylisothiazolinone, Isoproturon, Carbendazime, Terbutryn).
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	<p>Tel.: (+49) 0 61 54 / 71 17 10 Fax: (+49) 0 61 54 / 71 17 11 e-mail: kundenservicecenter@caparol.de</p> <p>International Distribution: Please see www.caparol.com</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. 110 · Muresko SilaCryl® · Issued: February 2010

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