

Muresko SilaCryl®

Universally applicable SilaCryl® (silicone resin) based façade paint with mineral characteristics.
Highly diffusion-capable and water-repellent.



Product Description

Field of Application	<p>For high-quality exterior coatings on even and textured substrates. The SilaCryl® base provides excellent moisture proofing, high water vapour permeability and sufficient CO₂ resistance. 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 rough-textured renders/plasters Muresko provides texture preservation or texture equalisation, depending on the degree of dilution. Particularly suitable for the renovation of sound existing coats on autoclaved aerated concrete (AAC).</p>
Material Properties	<ul style="list-style-type: none"> ■ Water thinnable, ecologically compatible, low odour ■ Weather-resistant ■ Water-repellent to DIN 4108 ■ Alkali-resistant, hence unsaponifiable ■ Easy to apply ■ Excellent covering of edges ■ This product is provided with a preservative against deterioration in the coating due to algal and fungal attack
Material Base / Vehicle	Silicone resin + pure acrylate dispersion/emulsion
Packaging/Package Size	<ul style="list-style-type: none"> ■ 2.5 litres, 5 litres and 12.5 litres ■ ColorExpress: 1.25 l, 2.5 l, 5 l, 7.5 l and 12.5 litres
Colours	<p>White.</p> <p>Muresko can be tinted with CaparolColor or Amphibolin colourants. If more than one can/bucket is manually tinted, all material must be thoroughly mixed before use in order to avoid colour differences. Quantities of 100 litres or more in individual colour shades may be ordered ready-tinted from the factory.</p> <p>Muresko can be tinted to all current colour collections via ColorExpress tinting machine system. Check tinted material prior to the application to avoid colour differences. Use always material of the same batch, when applying on continuous surfaces. Brilliant, intensive colour shades may have a lower opacity (hiding/covering power). It is therefore advisable to apply a first coat in a similar hiding pastel tint, based on white. 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 shade</p>
Gloss Level	Matt (flat), G ₃



Technical Data

Characteristics according to DIN EN 1062:

■ Density:	Approx. 1.5 g/cm ³
■ Maximum grit size:	< 100 µm, S ₁
■ Dry film thickness:	100 – 200 µm, E ₃
■ Water permeability (w-value):	≤ 0.1 [kg/(m ² · h ^{0.5})] (low) W ₃
■ Water vapour permeability (sd-value):	< 0.14 m (high), V ₁ Tinting may cause variations.

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.

Application

Suitable Substrates

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

Substrate Preparation

New and Existing, Sound ETICS/EWI Systems with Surfaces of Synthetic Resin-Bound (Organic) Render/Plaster, Silicate Render/Plaster, Silicone Resin Render/Plaster and Lime Cement Plaster (PII):

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 and details as mentioned below.

Renders/Plasters of Mortar Groups/Classes PII (Lime-Cement Mortars), PIII (Cement Mortars) or Silicate-Based:

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 idle 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 may be coated after an idle time of 7 days.

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

Autoclaved Aerated Concrete (AAC) with Sound Existing Coatings:

Clean the sound surface and apply a priming coat of CapaGrund Universal. See our Disbon product range for the renovation of unsound AAC coatings.

Concrete:

Concrete surfaces with dirt deposits or fines/sintered layer must be cleaned mechanically or with high-pressure jet, in compliance with the regulations. Apply a priming coat of CapaGrund Universal on slightly absorbent or even surfaces. Apply a priming coat of OptiGrund E.L.F. on highly porous, slightly sanding or absorbent surfaces. Prime chalking surfaces with Dupa-grund.

Cement-Bound Wood Chipboards (Particle Boards):

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

Fair-Faced Brick Masonry:

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

Sound Dispersion/Emulsion Paint Coatings:

Clean dirty, chalking coatings 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, when other cleaning methods are used (washing, wire brushing, hosing with water).

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

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

Unsound Mineral Paint Coatings:

Remove the coating 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.

Unsound Coatings of 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. Apply one priming coat of CapaGrund Universal on slightly absorbent or even surfaces. Apply one priming coat of Dupa-grund on chalking, sanding, absorbent surfaces.

Surfaces Contaminated with Industrial Gases or Soot:

Coat with solvent-based façade 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. 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.

Surface Coating System

Remove algal and fungal (mildew/mould) attack by wet blasting, in compliance with the regulations. Treat the surfaces with Capatop or FungiGrund and allow to dry well.

First or Intermediate Coat:

Muresko, diluted up to max. 10% with tap (potable) water.

Finishing Coat:

Muresko, diluted up to max. 5% with tap water. For retaining the texture of rough-textured substrates dilute the first coat max. 15 – 20% and the finishing coat up to max. 10%.

Consumption

Approx. 200 ml/m² per coat on an even substrate. On rough-textured surfaces correspondingly more. The exact rate of consumption is best established by a trial coating.

Application Conditions

Lower Temperature Limit for Application and Drying:

+5 °C for material, 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 immediately after use with water.

Note

The materials 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 material should be applied wet-on-wet and without interruption. Do not apply on horizontal surfaces exposed to rain or moisture.

Luminosity should be above 30 for application on sound AAC coatings and above 20 on ETICS/EWI systems with sound existing coats.

Façades in special climatic conditions (high moisture degree) or subjected to a higher influence of atmospheric exposure: This product is provided with a preservative against deterioration in the coating 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 E.L.F. for substrate preparation on such infested substrates after having finished the cleaning procedure.

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 cannot occur when the material is applied under suitable climatic conditions.

Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: See BFS Data Sheet No. 25)

Advice

German Certificates

- Muresko SilaCryl Determination of water vapour permeability and water permeability rate
- Muresko SilaCryl Efficiency against algal and fungal attack

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. If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria. Only to be applied by paint brush or roller.

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. 20 g/l VOC.

Product Code Paints and Enamels

M-DF02 F

Substances of Content - Declaration

Polyacrylate resin/polysiloxane, titanium dioxide, calcium carbonate, silicates, water, film forming agent, additives, preservative agent, film preservatives

Further Details

See 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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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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