

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"> ■ Highly diffusion-capable ■ Versatile tintable and color stable ■ Good protection against algae and fungal attack ■ Water-repellent according to German standard DIN 4108 ■ Alkali-resistant, hence unsaponifiable
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> <ul style="list-style-type: none"> ■ 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. ■ Brilliant, intense shades may have less opacity. For these shades, it is therefore advisable to pre-coat with a comparable shade that is opaque, based on a white shade and pastel-colored. <p>Colour resistance according to German BFS-Merkblatt No. 26: Class: B Group: 1 to 3, depending on the colour</p>
Gloss Level	Matt (flat), G ₃



Storage
Technical Data

Please store in a cool place and keep the bucket tightly closed.

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.
Key coat according to Technical Information No. 606 "Untergründe und deren Vorbehandlung" (substrates and their pre-treatment).

Substrate Preparation

New and existing, stable ETICS/EWI Systems with surfaces of synthetic resin-bound (organic) finishing coats, silicone resin finishing coats and lime cement finishing coats (PII) / minimum compressive strength according to DIN EN 998-1: 1.5 N/mm²:

Clean old finishing coats 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 finishing coat and details as mentioned below.

Finishing coats 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 finishing coats 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 finishing coats of mortar classes PII and PIII can be minimised by an additional key coat of CapaGrund Universal and the finishing coat can be coated after a holding time of 7 days.

Old finishing coats:

Repairs must have adequate time to cure and dry. On highly porous, absorbent, slightly sanding finishing coats apply key coat OptiSilan TiefGrund. Prime highly sanding, chalking substrates with Dupa-Putzfestiger.

New silicate finishing coats:

Prime with products from our silicate Sylitol® product line.

Old silicate paints and finishing coats:

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 Dupa-Putzfestiger.

Autoclaved Aerated Concrete (AAC) / Cellular Concrete with stable existing coatings:

Clean stable surfaces and apply key coat 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 key coat CapaGrund Universal on slightly absorbent or smooth surfaces. Apply key coat OptiSilan TiefGrund on highly porous, slightly sanding or absorbent surfaces. Prime chalking surfaces with Dupa-Putzfestiger.

Cement-bound wood chipboards (particle boards):

Apply 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 key coat Dupa-Putzfestiger. If brown discolouration appears on the intermediate coat, then recoat with solvent-based facade paint Duparol.

Stable dispersion, dispersion silicate or silicone resin paint coatings:

Clean old coatings using pressurized water jets in compliance with legal regulations. Observe the substrate test in Germany according to BFS-Merkblatt no.20.

Old coatings with the following properties:

Weakly absorbent, solid, dry, stable: see coating system

Moderately absorbent: Capagrund Universal diluted to max. 3% water

Highly absorbent: OptiSilan TiefGrund or Dupa-Putzfestiger

Old coatings on ETICS:

Strongly absorbent, firmly adherent, fine hairline cracks:

Dupa-Putzfestiger

Chalking or flouring (also under exposure to water; in Germany based on BFS No. 20, B.13 "Oberflächenfestigkeit, Kreidung"):

Coat with Dupa-Putzfestiger

Shiny and water-repellent (hydrophobic) surfaces:

Roughen mechanically and coat with Capagrund Universal.

If, after mechanical roughening, there are still water beads, we recommend to coat with Dupa-Haftgrund.

Sound/Stable synthetic resin-bound (organic) or silicone resin finishing coats:

Clean old finishing coats 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-Putzfestiger.

Unstable emulsion paints or synthetic resin-bound (organic) finishing coats:

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 CapaGrund Universal on slightly absorbent or smooth surfaces. Prime chalking, sanding, absorbent surfaces with Dupa-Putzfestiger.

Surfaces soiled by factory fumes or soot:

Coat with solvent-based facade paint Duparol.

Cracks in finishing coats or concrete:

Depending on the crack class, coat with Cap-elast system, FibroSil or PermaSilan.

Surfaces with salty efflorescence:

Remove salty efflorescence thoroughly by dry wire brushing and prime with Dupa-Putzfestiger. Coatings 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 coat:

In accordance with the specifications under the point "substrate preparation"

Intermediate coat:

Muresko, diluted to a max. of 10 % with OptiSilan TiefGrund or tap (potable) water.

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

Temperature limits for application and drying:

Min. +5 °C and max. +30°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 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 key 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-Merkblatt No. 25)</p>

Advice

German Certificates

- 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)

May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. 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.
Further information: See Material Safety Data Sheet (MSDS).

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).

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).

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 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.

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

BSW50 (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).

Customer Service Centre

Tel.: +49 6154 71-71710
Fax: +49 6154 71-71711
e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com

Technical Information No.110 · Issue: July 2020

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 SilaCry® · Issued: February 2010

CAPAROL Farben Lacke Bautenschutz GmbH · Roßdörfer Straße 50 · D-64372 Ober-Ramstadt · Internet www.caparol.com · E-Mail info@caparol.de