

CapaSilan

Silicone resin-based interior paint. Problem solver for walls and ceilings subjected to intensive sidelight.



Product Description

Field of Application	<p>CapaSilan is an emission-minimised and solvent-free, mineral matt, scrub-resistant interior paint with outstanding properties.</p> <p>CapaSilan represents a new generation of interior paints. Due to the excellent working properties and long open time it is possible to avoid overlap marks (lapping) even in rooms with adverse lighting conditions (sidelight). Suitable for the renovation of acoustic ceiling boards and renders, when applied in compliance with specified renovation instruction.</p>
Material Properties	<ul style="list-style-type: none"> ■ Emission-minimised and solvent-free. ■ Free of fogging-active substances. ■ Long open time – hence applicable without lapping on large-scale, continuous surfaces. ■ Highly water vapour permeable. ■ sd-value < 0.1 m ■ Easy to touch up. ■ Easy to apply. ■ Water-thinnable.
Material Base/Vehicle	Combination of silicone resin emulsion and special synthetic resin dispersion.
Packaging/Package Size	<ul style="list-style-type: none"> ■ Standard Material: 5 litres, 12.5 litres ■ CapaSilan Airfix: Ready to use for efficient roller and spray application with airless equipment. 25 litres hobbock ■ ColorExpress: 12.5 litres
Colours	<p>White</p> <p>CapaSilan can be tinted with CaparolColor and Amphibolin colourants (full-tone and tinting paints). Self-tinted material must be prepared in advance and mixed in order to avoid colour differences. Quantities of 100 litres or more in individual shades may be ordered ready-tinted from the factory.</p> <p>CapaSilan can be tinted via the ColorExpress machine system according to all current colour collections in pastel tints up to luminosity 70 (approx.). Check the tinted material prior to the application to avoid colour differences. Always apply material of the same batch on large-scale, continuous surfaces.</p>
Gloss Level	Dead-matt (to DIN EN 13 300)
Storage	Cool, but frost-free.



Technical Data

Characteristics to DIN EN 13 300:

Tinting may cause variations.

- Wet scrub resistance: Class 2, corresponds to scrub-resistance to DIN 53778
- Contrast ratio (opacity): Class 1, with a yield of 7 m²/l or 140 ml/m²
- Maximum particle (grit) size: Fine (< 100 µm)
- Density: Approx. 1.45 g/cm³

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

Renderers/Plasters of Mortar Groups/Classes P II (Lime-Cement Mortars) and Class P III (Cement Mortars):

Firm renderers/plasters with normal absorbency require no preliminary treatment. Prime highly porous, sanding or absorbent renderers/plasters with OptiGrund E.L.F. or CapaSol LF.

Gypsum and Ready-Mixed Gypsum Plasters of Mortar Group P IV:

Apply one priming coat of Caparol-Haftgrund. Sand sintered gypsum renderers/plasters, remove abrasive dust and prime with Caparol-Tiefgrund TB.

Gypsum Building Boards:

Prime absorbent boards with OptiGrund E.L.F. or Caparol-Tiefgrund TB.
Prime highly compacted, smooth boards with Caparol-Haftgrund to promote bonding.

Gypsum Plaster Boards (Sandwich Type Plaster Boards):

Grind off putty burrs. Soft and roughened gypsum areas (repairs) must be primed and strengthened with Caparol-Tiefgrund TB. Prime with Caparol-Haftgrund, OptiGrund E.L.F. or CapaSol LF. Boards containing water-soluble substances that leaves marks must be primed with Caparol AquaSperrgrund. In Germany follow BFS Data Sheet No. 12.

Concrete:

Remove all residues of releasing agents and chalking or sanding materials.

Autoclaved Aerated Concrete (AAC):

Prime autoclaved aerated concrete with a 1 : 3 mixture of Capaplex and tap water.

Fair-Faced Brick and Sand-Lime Brick Masonry:

No preliminary treatment required.

Sound Existing Coatings:

Matt, slightly absorbent coatings may be treated without a preliminary preparation. On large-scale, continuous surfaces a priming coat of CapaSol LF or OptiGrund E.L.F. may be applied (hereby the open time is extended). Roughen glossy surfaces and enamel coatings. Prime with Caparol-Haftgrund.

Unsound Existing Coatings:

Remove unsound coatings of enamels/varnishes, dispersion paints or synthetic resin-bound (organic) renderers/plasters completely. Prime slightly absorbent, even surfaces with Caparol-Haftgrund. Prime highly porous, sanding or absorbent substrates with OptiGrund E.L.F. or CapaSol LF. Remove unsound mineral coatings by mechanical means and remove dust. Prime with Caparol-Tiefgrund TB.

Ceilings covered with Acoustic Elements and Acoustic Renderers/Plasters:

The restoration of acoustic systems requires a special proceeding; please request our technical assistance.

Distemper Paints:

Wash off the coating completely and prime with Caparol-Tiefgrund TB.

Unpainted Wood-Chip, Ingrain or Embossed Wallpapers:

No preliminary treatment required.

Non-Adherent Wallpapers:

Remove the wallpapers completely and wash off glue and remnants of lining. Prime the substrate with Caparol-Tiefgrund TB.

Mildewed Surfaces:

Remove fungal (mildew/mould) attack by wet cleaning, then treat the surface with Capatox or FungiGrund and allow to dry thoroughly. Prime according to the type and condition of the substrate. Apply a finishing coat of Indeko-W, Malerit-W or Fungitex-W on badly infested surfaces in compliance with legal and official regulations (follow e.g. Biocidal Products Directive and Ordinance on Hazardous Substances).

Surfaces Stained by Nicotine, Water, Soot or Fat/Grease:

Remove nicotine, soot or fat/grease stains by washing with tap water adding a grease-dissolving household cleaning agent, then allow the substrate to dry well. Clean dried-up water stains by dry brushing. Apply an insulating coat of Caparol AquaSperrgrund. Apply a finishing coat of Aqua-inn № 1on highly soiled surfaces.

Wood and Derived Timber Products:

Coat with the water-thinnable, ecologically compatible Capacryl acrylic enamels or Capacryl PU enamels.

Small Defects:

After having completed the necessary preparations, repair small defects with Caparol-Akkordspachtel in accordance with our application instructions, and if necessary, prime subsequently.

Method of Application

Apply with paint brush, roller or airless equipment.

Airless application:

Spray angle: 50°
 Nozzle size: 0.021" – 0.026"
 Spray gun pressure: 150 – 180 bar
 Clean tools immediately after use with water.

Surface Coating System

First or Intermediate Coat

Apply CapaSilan diluted up to max. 10% with tap (potable) water. For large-scale application on continuous surfaces dilute up to 20% with tap water.

Finishing Coat:

Apply CapaSilan diluted up to max. 5% with tap (potable) water.

Consumption

Approx. 140 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 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.

Note

Stir and sieve the paint well before airless application. Due to the use of Caparol-Tiefgrund TB in the interiors, a typical solvent odour is released, hence proper ventilation must be provided during application and drying. Use non-aromatic, low-odour AmphiSilan-Putzfestiger in sensitive areas. Recommendation: Roll immediately over the freshly applied paint with a medium pile roller which does not lead to material accumulation in the border area (e.g. Rotanyl 18 made by Rotaplast) to minimise the formation of noticeable roller marks or textures. Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: BFS Data Sheet No. 25)

German Certificates	<p>Measuring of acoustical absorption according to DIN EN 20354. Test report No. 48 690, Acoustic-Technical Consulting Agency Müller-BBM, Planegg. The Fraunhofer Wilhelm-Klauditz-Institute (WKI) has audited the inoffensive application for interior use. The material is certified with TÜV quality mark "pollutant tested / supervised manufacturing process". German certificate is available on request.</p>
Please Note (Status as at Date of Publication)	<p>Keep out of the reach of children. Protect eyes and skin from paint splashes. In case of contact with eyes or skin, rinse immediately with plenty of water. Do not breathe spray dust. Do not empty into drains, water courses and onto the ground. Further information: See Safety Data Sheets.</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 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.</p>
EU limit value for the VOC content	<p>of this product (category A/a): max. 30 g/l (2010). This product contains < 1 g/l VOC.</p>
Product Code Paints and Enamels	<p>M-SF01</p>
Substances of Content · Declaration	<p>Polyvinyl acetate resin dispersion/poly siloxane, titanium dioxide, silicates, water, additives, preservative.</p>
Technical Assistance	<p>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.</p>
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>
International Distribution	<p>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.
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