

# CapaSilan

Silicone resin based interior paint. Troubleshooter for walls and ceilings subjected to intensive sidelight.



## Product Description

### Field of Application

CapaSilan is an emission-minimised and solvent-free, mineral matt, scrub-resistant interior paint with outstanding properties.

CapaSilan presents a new generation of interior paints. Due to the excellent application properties of CapaSilan and the long open time it is possible to avoid marks from lapping even in rooms with adverse lighting conditions (sidelight/grazing light). Also suitable as a renovation paint on acoustic ceiling boards and acoustic render/plaster.

### Material Properties

- Emission-minimised and solvent-free.
- Free of fogging-active substances.
- Long open time – for large-area application on seamless surfaces without lapping.
- Highly water vapour permeable.
- $s_d$ -value < 0.1 m
- Allows optimal repairs (easy to touch up).
- Easy to apply.
- Water-thinnable/-dilutable.

### Material Base / Vehicle

Combination of silicone resin emulsion and special synthetic dispersion/emulsion.

### Packaging/Package Size

- **Standard Product:** 5 litres and 12.5 litres. **Airfix:** 25 litres hobbock. Ready to use for efficient roller and spray application with airless equipment.
- **ColorExpress:** 7.5 litres and 12.5 litres

### Colours

White. CapaSilan can be tinted with CaparolColor or AmphiColor® (AVA) colourants. If more than one can/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 colour shades may be ordered ready-tinted ex factory.

CapaSilan is tintable to all current colour collections via the **ColorExpress** tinting & mixing machine system, up to luminosity 70 (approx.). Check tinted product before applying to avoid colour deviation. Always use tinted paint of same batch, when applying on seamless surfaces.

### Gloss Level

Dull matt (Dead-matt according to DIN EN 13 300).

### Storage

Keep in a cool, but frost-free place.

### Technical Data

**Characteristics according to DIN EN 13 300:** Tinting may cause variations.



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

- Wet abrasion: Wet scrub resistance class 1, corresponds to "scrub-resistant" according to German standard DIN 53 778
- Contrast ratio: Opacity (hiding/covering power) class 1, with a spreading/covering rate of 7 m<sup>2</sup>/l or consumption of 140 ml/m<sup>2</sup>
- Maximum particle (grit) size: Fine (< 100 µm)
- Density: Approx. 1.45 g/cm<sup>3</sup>

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 18 363, section 3.

Substrate Preparation

**Renders/Plasters in Mortar Groups/Classes PII (Lime-Cement Mortars) and PIII (Cement Mortars) / Minimum Compressive Strength according to DIN EN 998-1: 2 N/mm<sup>2</sup>:** Solid renders/plasters with normal absorbency require no preliminary treatment. Prime highly porous, sanding or absorbent renders/plasters with OptiGrund E.L.F. or CapaSol LF.

**Gypsum and Ready-Mixed Gypsum Plasters of Mortar Group PIV / Minimum Compressive Strength according to DIN EN 13279: 2 N/mm<sup>2</sup>:** Prime with Caparol-Haftgrund. Sand/grind sintered gypsum renders/plasters, remove all sanding dust and prime with Caparol-Tiefgrund TB.

**Gypsum Wallboards:** Prime absorbent boards with OptiGrund E.L.F. or Caparol-Tiefgrund TB. Prime highly compact, smooth boards with Caparol-Haftgrund to promote bonding.

**Gypsum Plasterboards (Sandwich Type Plaster Boards / Am.: Drywalls):** Sand/grind off filling burrs. Prime and strengthen soft gypsum areas (repair patches) with Caparol-Tiefgrund TB. Prime with Caparol-Haftgrund, OptiGrund E.L.F. or CapaSol LF. For boards with water-soluble content that leaves marks, apply one priming coat of Caparol AquaSperrgrund. In Germany: Follow BFS Data Sheet No. 12.

**Concrete:** Remove all residues of releasing agents and chalking or sanding substances.

**Autoclaved Aerated Concrete (AAC) / Cellular Concrete:** Prime with a 1 : 3 mixture of Capaplex and tap (potable) water.

**Facing Brickwork and Fair-Faced Sand-Lime Brickwork:** Coat without any pre-treatment.

**Sound/Stable Existing Coatings:** Matt, slightly absorbent coatings can be treated without a preliminary preparation. For large-area application on seamless surfaces the open time can be prolonged with a priming coat of CapaSol LF or OptiGrund E.L.F. Roughen/sand glossy surfaces and enamel coatings. Prime with Caparol-Haftgrund.

**Unsound Existing Coatings:** Completely remove unsound coatings of enamel, dispersion/emulsion paint or synthetic resin-bound (organic) render/plaster. Apply one priming coat of Caparol-Haftgrund on slightly absorbent, smooth surfaces. Apply one priming coat of OptiGrund E.L.F. or CapaSol LF on highly porous, sanding or absorbent substrates. Remove unsound coatings of mineral paint by mechanical means and remove all sanding dust. Prime with Caparol-Tiefgrund TB.

**Acoustic Ceilings with Sound-Absorbing Elements/Boards or Renders/Plasters:** The restoration of acoustic systems requires a special procedure. Detailed instructions are provided in the German Caparol restoration manual on spray technology: #843604 CP Handbuch Spritzverarbeitung. This manual can be requested via Caparol. If necessary, please ask for advice.

**Glue-Bound Distemper (Limewater Colour/Paint):** Wash off the existing distemper very thoroughly, allow to dry and prime with Caparol-Tiefgrund TB.

**Uncoated Woodchip/Ingrain, Relief or Embossed Wallpapers made of Paper:** Coat without any pre-treatment.

**Non-Adherent Wallpapers:** Remove the wallpapers completely and wash off all residues of wallpaper paste/glue and waste paper. Prime the substrate with Caparol-Tiefgrund TB.

**Mildewed/Mouldy Surfaces:** Remove fungal (fungi/mildew/mould) attack by wet cleaning, then use Capatop 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. Ordinance on Biocidal Agents and Ordinance on Hazardous Substances).

	<p><b>Surfaces Stained by Nicotine, Water, Soot or Fat/Grease:</b> Remove nicotine, soot or fat/grease stains by washing with tap water adding a fat-dissolving household detergent, then allow the substrate to dry thoroughly. Clean dried up water stains with a dry scrubbing brush. Apply one insulating prime coat of Caparol AquaSperrgrund. Apply one finishing coat of Aqua-inn N<sup>o</sup>1 on highly soiled surfaces.</p> <p><b>Wood and Derived Timber Products:</b> Coat with water-thinnable (-dilutable), ecologically compatible Capacryl acrylic enamels or Capacryl PU enamels.</p> <p><b>Small Defects:</b> After having completed the necessary preparations, repair small defects with Caparol-Akkordspachtel in accordance with our processing specification, and if necessary, prime subsequently.</p>
Method of Application	<p>Apply with paint brush, paint roller or airless spraying equipment.</p> <p><b>Airless application:</b> Spray angle: 50°; Nozzle size: 0.021" - 0.026"; Spray pressure: 150–180 bar Clean tools immediately after use with water.</p>
Surface Coating System	<p><b>Priming or Intermediate Coat:</b> Apply CapaSilan diluted to a max. of 10 % with tap (potable) water.</p> <p><b>Finishing Coat:</b> Apply CapaSilan diluted to a max. of 5 % with tap water.</p>
Consumption	<p>Approx. 140 ml/m<sup>2</sup> per coat on an even (smooth) substrate. On rough-textured surfaces correspondingly more. The exact consumption is best established by a trial coating (test area) on site.</p>
Application Conditions	<p><b>Lower Temperature Limit for Application and Drying:</b> +5 °C for product, substrate and ambient air.</p>
Drying/Drying Time	<p>At +20 °C and 65 % relative humidity surface-dry and recoatable after 4 - 6 hours. Completely cured and ready for stress after approx. 3 days. Lower temperatures and higher relative humidity extend the drying time.</p>
Note	<p>Stir and sieve the paint thoroughly before airless spray application. When using 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. To minimize streakiness and texturing (roller marks) and to avoid product accumulation on edges, we recommend to directly treat the surface of the freshly applied paint with a suitable medium pile roller, e.g. Rotanyl 18 made by Rotaplast. Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: See BFS Data Sheet No. 25)</p>

## Advice

German Certificates	<p>Measuring of acoustical absorption according to DIN EN 20 354. Test report No. 48690, Acoustic-Technical Consulting Agency Müller-BBM, Planegg. The Fraunhofer Wilhelm-Klauditz-Institute (WKI) has audited the inoffensive application for interior use. The product 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 reach from children. Protect eyes and skin from paint splashes. In case of contact with eyes, rinse immediately with plenty of water. When spraying: Do not breathe spray dust. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water. Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. Further information: See Material Safety Data Sheet (MSDS).</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 must be given 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	<p>of this product (category A/a): 30 g/l (2010). This product contains &lt; 1 g/l VOC.</p>
Product Code Paints and Enamels	<p>M-SF01</p>
Substances of Content - Declaration	<p>Polyvinyl acetate resin dispersion/polysiloxane, titanium dioxide, silicates, water, additives, preservative (methylisothiazolinone, benzisothiazolinone).</p>
Customer Service Centre	<p>Tel.: +49 6154 71-71710 Fax: +49 6154 71-71711 e-mail: kundenservicecenter@caparol.de</p> <p>International Distribution: Please see <a href="http://www.caparol.com">www.caparol.com</a></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.358 · CapaSilan · Issued: February 2022