

CapaSilan

Versatile interior paint based on silicone resin with long open time and high hiding power.



Product Description

Field of Application

CapaSilan is the perfect all-rounder for every project, all lighting conditions, walls and ceilings. Thanks to its particularly long open time, CapaSilan is also excellently suited for large-dimensioned surfaces with increased incidence of grazing light. Due to the easy application and the high hiding power, perfect painting results with a fine surface can be achieved. Painted surfaces can be optimally touched up afterwards. The perfect all-rounder for top results and safe application.

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 l, 12.5 l
- **ColorExpress:** 12.5 l

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

G4 -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.

- Wet abrasion: R-class 1
- Contrast ratio: H_{10} -class: 1 bei 7 m²/l
- Maximum particle (grit) size: S1 fine (< 100 µm)
- Density: Approx. 1.45 g/cm³



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 18 363, section 3.

Substrate Preparation

Renderers according to DIN EN 998-1 class CS II - CS IV / compressive strength min. 2 N/mm²: Solid, normally absorbent and even renderers can be coated without primer coat. Prime slightly sanding, absorbent renderers with OptiSilan TiefGrund, CapaSol RapidGrund or Syllitol RapidGrund 111. Prime more sanding renderers with OptiSilan TiefGrund.

Gypsum plasters according to DIN EN 13279-1 / compressive strength min. 2 N/mm²: Sand and remove dust from gypsum plasters with sintered skin, prime with OptiSilan TiefGrund, CapaSol RapidGrund or Syllitol RapidGrund 111.

Gypsum boards/gypsum planks: Priming coat with OptiSilan TiefGrund.

Gypsum boards (plasterboard): Sand off filler burrs. Prime sanded gypsum filler areas and the gypsum boards with OptiSilan TiefGrund, CapaSol RapidGrund or Syllitol RapidGrund 111. In case of stronger absorption, prime with OptiSilan TiefGrund. For boards with water-soluble, discolouring ingredients, prime with Caparol AquaSperrgrund. Observe BFS Data Sheet No. 12, Part 2.

Concrete: Remove any release agent residues and chalking, sanding substances. Prime with OptiSilan TiefGrund, CapaSol RapidGrund or Syllitol RapidGrund 111.

Sand-lime masonry: Dry brush off existing salt efflorescence. Prime with CapaSol RapidGrund or Syllitol® Rapidgrund 111. In case of stronger absorption, prime with OptiSilan TiefGrund.

Load-bearing coatings: Recoat matt, slightly absorbent coatings directly. Roughen glossy surfaces and paint coatings.

Non-bearing coatings: Remove non-stable varnish and dispersion paints or synthetic resin plaster coatings. Prime coarsely porous, sanding or absorbent surfaces with OptiSilan TiefGrund. Remove non-bearing mineral paint coatings mechanically and remove dust from the surfaces. Apply one priming coat of OptiSilan TiefGrund.

Glue-Bound Distemper (Limewater Colour/Paint): Wash off the existing distemper very thoroughly, allow to dry and prime with Dupa-Putzfestiger. Alternatively, remove mechanically, rinse and prime with OptiSilan TiefGrund.

Woodchip, relief or embossed wallpapers made of paper and sample wallpapers: Coat without pre-treatment. For relief and embossed wallpapers made of paper as well as sample wallpapers, apply a trial coat. Foamed wallpapers may cause intermediate reactions (stickiness, odour) when coated.

Removed wallpaper: Wash off paste and waste paper residues. Apply one priming coat of OptiSilan TiefGrund.

Mould-infested surfaces: Remove mould by wet cleaning. Wash surfaces with Capatop and allow to dry thoroughly. Observe the legal and official regulations (e.g. the Biological Substances Ordinance and the Ordinance on Hazardous Substances). Increased protection against renewed infestation can be achieved with the products Malerit-W, Indeko-W and Fungitex-W.

Surfaces with nicotine, water, soot or grease stains: Wash off nicotine stains as well as soot or grease stains with water, adding a grease-dissolving cleaning agent, and allow to dry thoroughly. Clean dried water stains by brushing dry. Apply a barrier priming coat of Caparol AquaSperrgrund fein (see Technical Information No. 384) or Caparol-Filtergrund grob (see Technical Information No. 845).

Wood and wood-based materials: Apply one priming coat of Capacryl Holz-Isogrund. On boards factory-coated with melamine resin, apply one priming coat of Capacryl-Haftprimer. The joint areas/ panel joints are not to be finished crack-free. Here, for higher visual requirements, a decoupling layer with thin gypsum boards with appropriate filling is recommended.

Old lime filler techniques: Remove sintered layer on the surface by sanding. In case of negative wetting test with water on sanded surface, the entire lime filler layer must be removed and the substrate must be rebuilt accordingly. In case of positive wetting test with water on sanded surface, prime with OptiSilan TiefGrund.

Chips, joints and defects: Fill the recess with Füllspachtel P.

Note Q2/Q3 Filling / thin gypsum layers < 0.5 mm: When using gypsum-containing, hydraulically setting levelling compounds in quality level Q2/Q3, a transparent, water-based primer is recommended. For this, we refer to the Maler&Lackierer leaflet No. 2 -9/2020 "Adhesion problems of coatings on filled gypsum (cardboard) boards" of the Bundesverband Farbe, Gestaltung, Bautenschutz and the Bundesausschuss Farbe und Sachwertschutz. As an alternative to gypsum-based Q3 filling, filling with pasty filling compounds has proven successful.

TECHNICAL INFORMATION NO. 358

Method of Application

Apply with paint brush, paint roller or airless spraying equipment.

Airless application:

Dilution	max. 5% mit Wasser
Airless equipment	
Spray pressure	150 - 180 bar
Spray angle	40° - 50°
Nozzle size	0,019" - 0,021"
Pistol filter in MW	ca. 0,31mm
Internally fed roller systems	
Spray pressure	80 - 120 bar
Pistol filter in MW	ca. 0,31mm

Clean tools with water after use.

Surface Coating System

White coat:

For the primer or intermediate coat, a rich, even coat of CapaSilan diluted with max. 10% water. Top coat diluted with max. 5% water. On high-contrast surfaces, apply a previous primer coat diluted with a maximum of 5% water. On differently absorbent substrates, apply a primer coat of HaftGrund EG.

Colored coating:

When using intensive color tones, we recommend a primer coat with Caparol-Haftgrund EG in the matching primer system color tone.

Stir the material thoroughly immediately before application.

To avoid roll streaks, apply a thick and even coat and always roll in one direction after a short flash-off time. Always apply trimming areas wet-on-wet. Reworking should be carried out with great care, especially with intensive shades.

Practical tip: To create low-textured surfaces, apply CapaSilan evenly and, after a short flash-off phase, gently roll on with Caparol FeinRoller. This allows you to achieve particularly fine surfaces.

Consumption

Approx. 140 ml/m² 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.

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 cured and ready for stress after approx. 3 days.

Lower temperatures and higher relative humidity extend the drying time.

Note

For airless spray application, stir the paint well and sieve. To minimise rolling streakiness and texture, we recommend immediately re-rolling the freshly applied paint with a medium-pile roller that does not lead to material accumulation in the edge area (e.g. Rotanyl 18 from Rotaplast). Markings from touch-ups in the surface depend on many factors and are therefore unavoidable (BFS Leaflet 25).

Advice

German Certificates

- Measurement of sound absorption according to DIN EN 20354. Test report no. 48690, sound consulting office Müller-BBM, Planegg.
- Testing of disinfectant resistance by the Dr. Robert Murjahn Institute.

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Please Note (Status as at Date of Publication)

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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 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.

EU limit value for the VOC content

of this product (category A/a): 30 g/l (2010). This product contains < 1 g/l VOC.

Product Code Paints and Enamels

BSW20

Substances of Content - Declaration

polyvinylacetate resin, silicone resin, silicates, titanium dioxide, mineral pigments / fillers, calcium carbonate, water, additives, Preservative.

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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: July 2023

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