

CapaSan

Interior paint with a photocatalytic effect to improve the indoor air quality.



Product Description

Field of Application	Top class interior paint with unique properties. Special pigments and light energy help to decompose organic substances (airborne pollutants) on the coating due to the photocatalytic effect. Furthermore, the paint shows an odour reducing effect, e.g. minimising tobacco smoke, cooking smells, etc. CapaSan is easy to apply and has a health-conscious, positive effect on the room climate, particularly when applied in combination with ElectroShield.
Product Properties	<ul style="list-style-type: none"> ■ Emission-minimised, solvent-free, unplasticized ■ Water-thinnable, ecologically compatible ■ High opacity (hiding/covering power) ■ Free of fogging-active substances ■ Diffusion-capable ■ sd-value < 0.1 m
Product Base / Vehicle	Synthetic dispersion/emulsion according to DIN 55945.
Packaging/Package Size	<ul style="list-style-type: none"> ■ Standard product: 5 litres and 12.5 litres ■ ColorExpress: 7.5 litres and 12.5 litres
Colours	White
	Due to the photocatalytic effect only mineral/inorganic pigments can be used for tinting CapaSan. Suitable are Histolith® Volltonfarben SI (colourants) to produce light/bright colours; the product is tintable to luminosity > 70. Quantities of 100 litres or more in individual colour shades may be ordered ready-tinted ex factory. Furthermore, CapaSan can be tinted via the ColorExpress tinting machine system. Check tinted product prior to the application to avoid colour deviation. Use always tinted product of the same batch, when applying on continuous surfaces.
Gloss Level	Dull matt (Dead-matt according to DIN EN 13 300)
Storage	Keep in a cool, but frost-free place.
Technical Data	<p>Characteristics according to DIN EN 13 300: Tinting may cause variations.</p> <ul style="list-style-type: none"> ■ Wet scrub resistance: Class 3 ■ Contrast ratio: Opacity (hiding/covering power) class 2, with a spreading rate of 7 m²/l or 140 ml/m² ■ Maximum particle (grit) size: Fine (< 100 µm) ■ Density: Approx. 1.5 g/cm³



Application

Suitable Substrates
Substrate Preparation

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 18 363, paragraph 3.

Renders/Plasters in Mortar Groups/Classes P II (Lime-Cement Mortars) and P III (Cement Mortars):

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

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

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

Gypsum Wallboards:

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

Gypsum Plasterboards / Sandwich-Type Plaster Boards:

Sand off all putty burrs. Soft and roughened gypsum areas (repair patches) 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 leave 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 (potable) water.

Fair-Faced Brick and Sand-Lime Brick Masonry:

No preparatory treatment required.

Sound Existing Coatings:

Matt, slightly absorbent coatings may be coated without any pre-treatment. Roughen (sand) glossy surfaces and enamel coatings. Prime with Caparol-Haftgrund.

Unsound Existing Coatings:

Remove unsound enamels and dispersion (emulsion/latex) paints or synthetic resin-bound (organic) renders/plasters. 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.

Distemper Paints:

Wash off the existing distemper very thoroughly and prime with Caparol-Tiefgrund TB.

Unpainted Wood-Chip, Ingrain or Embossed Wallpapers:

No preparatory treatment required.

Non-Adherent Wallpapers:

Remove completely and wash off all residues of wallpaper paste and waste paper. Prime 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 well. 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 one finishing coat of Aqua-inn N° 1 on highly soiled surfaces.

Wood and Derived Timber Products:

Coat with dilutable, ecologically compatible Capacryl acrylic enamels or with 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	Applicable with paint brush, paint roller or airless spray equipment. Airless application: Spray angle: 50° Nozzle size: 0.021"–0.026" Spray gun pressure: 150–180 bar Clean tools/equipment immediately after use with water.
Surface Coating System	One even, generously applied coat of CapaSan, undiluted or diluted up to max. 5 % with tap (potable) water. High-contrast surfaces require a previously applied first coat of CapaSan, diluted up to max. 5 %. On unevenly absorbent substrates apply one priming coat of Caparol-Haftgrund.
Consumption	Approx. 140 ml/m ² 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	Minimum Temperature 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 dry and ready for stress after approx. 3 days. Lower temperatures and higher humidity extend the drying time.
Note	Do not mix or thin CapaSan with other products. To avoid lapping, CapaSan should be applied wet-on-wet and without a break. To avoid spotting one priming coat of Caparol-Haftgrund should be applied before applying tinted coats of CapaSan. The priming coat should be tinted to match the finishing coat in shade, if necessary. Carefully stir up the paint and sieve well before airless application. It is advisable to apply the interior paint CapaSilan, when a surface is subject to adverse lighting conditions (sidelight). Due to the use of Caparol-Tiefgrund TB in the interiors, a typical solvent odour is released, hence proper ventilation must be provided. Use non-aromatic, low odour AmphiSilan-Putzfestiger in sensitive areas. The photocatalytic effect may lead (in the longer term) to slight colour deviation or slightly chalking effect. 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	The Institute for Chemical Engineering at Hannover has measured and confirmed the photocatalytic effect. The WKI – Fraunhofer Institute at Braunschweig has measured and confirmed the NO (nitric oxide) reducing effect. Both certificates are available on request.
Please Note (Status as at Date of Publication)	Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water. When spraying: Do not breathe spray dust. Do not empty into drains, water courses or onto the ground. Further details: See Safety Data Sheet (MSDS).
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 buckets/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/a): max. 30 g/l (2010). This product contains < 1 g/l VOC.
Product Code Paints and Enamels	M-DF01
Substances of Content - Declaration	Polyvinyl acetate resin dispersion, titanium dioxide, calcium carbonate, silicates, water, additives, preservative agent
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	Tel.: (+49) 0 61 54 / 71 17 10 Fax: (+49) 0 61 54 / 71 17 11 e-mail: kundenservicecenter@caparol.de International Distribution: Please see www.caparol.com

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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. 401 · CapaSan · Issued: January 2010

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