

# CapaSan

**Interior paint with a photocatalytic effect.  
Improves the indoor environmental quality.**

## Product Description

### Field of Application:

Top class interior paint with unique properties. White pigments and light energy help to decompose organic substances on the coating (photocatalytic effect). Furthermore the paint shows an odour reducing effect, e.g. minimising tobacco smoke, dripping odours, etc. CapaSan is easy to apply and offers a broad health-conscious coating alternative, particularly if applied in combination with ElectroShield.

### Properties:

- Emission-minimised, solvent-free.
- Free of softeners.
- Water-thinnable, ecologically compatible.
- High opacity / covering power.
- Free of fogging-active substances.
- Diffusion-capable.
- $s_d$ -value < 0.1 m.

### Characteristics to DIN EN 13 300:

- **Wet abrasion:**  
Class 3, corresponds as wash-resistant to DIN 53 778.
- **Contrast ratio:**  
Opacity/covering power Class 2, with a usage of 7 m<sup>2</sup>/lit. or 140 ml/m<sup>2</sup>.
- **Gloss level:**  
(dead) matt
- **Maximum particle size:**  
fine (<100 µm)

Tinting may cause variations.

### Certificate:

The Institute for Chemical Engineering at Hannover has measured and confirmed the photocatalytic effect. The WKI – Fraunhofer Institute for Building Physics (Holzkirchen) has measured and confirmed the NO (nitric oxide) reducing effect. Both German certificates are available on request.

### Vehicle:

Synthetic dispersion to DIN 55 945.

### Density:

Approx. 1.5 g/cm<sup>3</sup>

### Colour:

White.

Due to the photocatalytic effect only mineral pigments can be used for tinting CapaSan to produce light shades (luminosity / lightness value >70).

Quantities of 100 litres or more of individual shades may be ordered ready tinted from the factory.

In addition **CapaSan** can be tinted via the ColorExpress machine system.



### Please Note

**(Status as at September 2007):**

Keep out of reach of children. 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.

### Storage:

Cool, but frost-free.

### 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 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.

### Product Code Paints and Enamels:

M-DF01

### Substances of Content - Declaration:

Polyvinyl acetate resin dispersion, titanium dioxide, calcium carbonate, silicates, water, additives, preservative.

Wellness paint for a healthy indoor climate



emission-minimised  
solvent-free  
free of softeners



### Packaging

#### Standard product:

5 litres and 12.5 litres

#### ColorExpress

7.5 litres and 12.5 litres



## Application

### Surface Coating System:

**One uniform, generously applied coat** of CapaSan, undiluted or diluted with max. 5% of tap (potable) water. Substrates of contrasting colours or high or irregular absorbency require a primary application, diluted with max. 5% of tap water.

### Methods of Application:

Apply with brush, paint roller or spray with 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.

### Consumption:

Approx. 140 ml/m<sup>2</sup> per coat on smooth substrates. On rough-textured surfaces correspondingly more. The exact rate of consumption is best established by a trial coating.

### Minimum Temperature 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:

Do not mix or thin CapaSan with other materials. To avoid lapping, the material should be applied wet-on-wet and without interruptions. To avoid spotting a priming coat of Caparol-Haftgrund should be applied before applying tinted CapaSan coatings. The priming coat should be tinted to match the finishing coat in shade, if necessary. Stir up the paint thoroughly and sieve before airless application. Apply CapaSilan, if a surface with adverse lighting conditions (sidelight) must be coated. 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 (fairly long-term) to slight aberration in shade or slightly chalking effect.

## Suitable Substrates and their Preparation

**The substrate must be sound, dry, clean, and free from all materials that may prevent good adhesion.**

In Germany: Follow VOB, part C, DIN 18 363, paragraph 3.

### Renderers/Plasters:

#### Class P II Lime-Cement Mortars

#### 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:

Priming coat with Caparol-Haftgrund. Sandpaper sintered gypsum renderers/plasters, remove 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 enhance bonding.

### Gypsum Plasterboards:

Grind off burrs. Soft and sandpapered gypsum areas (spots of repairs) must be primed and strengthened with Caparol-Tiefgrund TB. Prime with Caparol-Haftgrund, OptiGrund E.L.F. or with CapaSol LF.

Boards containing water-soluble, discolouring substances must be primed with Caparol AquaSperrgrund fine.

In Germany observe the recommendations given in BFS Data Sheet No. 12.

### Concrete:

Remove remnants of releasing agents and chalking or sanding materials.

### AAC:

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

### Fair-Faced Brick and

### Sandlime Brick Masonry:

No preliminary treatment required.

### Sound Existing Coatings:

Matt, slightly absorbent coatings may be treated without a preliminary preparation. Roughen/sandpaper glossy surfaces and enamel coatings. Priming coat with Caparol-Haftgrund.

### Unsound Existing Coatings:

Remove unsound coatings of enamels, dispersion paints or synthetic resin-bound renderers/plasters completely.

Prime slightly absorbent, smooth 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 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 mould infestation 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 fine (Technical Information No. 384). Apply a finishing coat of Caparol IsoDeck on highly soiled surfaces (Technical Information No. 848).

### Wood and Derived Timber Products:

Coat with the water-thinnable, 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 instructions, and if necessary, prime subsequently.

## Advice

### 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:

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e-mail: kundenservicecenter@caparol.de

## Technical Information No. 401 - Revised: September 2008

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/appliator 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: May 2008

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