



Information
Capasilan

CapaSilan

Silicone resin based interior paint. Troubleshooter 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 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.</p>
Material Properties	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Standard Product: 5 litres and 12.5 litres. <u>Airfix:</u> 25 litres hobbock. Ready to use for efficient roller and spray application with airless equipment. ■ ColorExpress: 7.5 litres and 12.5 litres
Colours	<p>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.</p> <p>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.</p>
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 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 m²/l or consumption of 140 ml/m² ■ Maximum particle (grit) size: F ine (< 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

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/mm²: 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/mm²: 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 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. Ordinance on Biocidal Agents 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 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 N⁹¹ on highly soiled surfaces.

Wood and Derived Timber Products: Coat with water-thinnable (-dilutable), 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 processing specification, and if necessary, prime subsequently.

Method of Application

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

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

Surface Coating System	Priming or Intermediate Coat: Apply CapaSilan diluted to a max. of 10 % with tap (potable) water. Finishing Coat: Apply CapaSilan diluted to a max. of 5 % with tap water.
Consumption	Approx. 140 ml/m ² 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	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)

Advice

German Certificates	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.
Please Note (Status as at Date of Publication)	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).
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	M-SF01
Substances of Content - Declaration	Polyvinyl acetate resin dispersion/polysiloxane, titanium dioxide, silicates, water, additives, preservative (methylisothiazolinone, benzisothiazolinone).
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

Technical Information No. 358 · Issue: January 2015

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: October 2014

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



CapaSilan Basis 1

Version	Revision Date:	Print Date	Date of last issue: 17.11.2017
2.5	20.08.2018	21.08.2018	Date of first issue: 04.04.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : CapaSilan Basis 1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Water-borne coatings

Recommended restrictions : within adequate application - none on use

1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710
Telefax : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, emission-free and solvent-free

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 20 - < 30
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6 238-877-9 01-2120140278-58		>= 1 - < 10
Kieselguhr, soda ash flux-calcined	68855-54-9 272-489-0 21-2119488518-22		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
Never give anything by mouth to an unconscious person.

If inhaled : Move to fresh air.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.

In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

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rinsing.
If eye irritation persists: Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Prevent further leakage or spillage if safe to do so.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8., For further information see Section 7 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of			

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	compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Kieselguhr, soda ash flux-calcined	68855-54-9	AGW (Alveolate fraction)	0,3 mg/m ³	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Diatomeous earth can, depending on its origin, contain quartz. The calcining of silica leads to a higher content of cristobalite, activated silica can contain up to 60 vol.% cristobalite. In examining the exposure to (calcined) silica both the amorphous part (limit value for diatomeous earth resp. calcined silica) and the total of the cristobalite and quartz content (carcinogenic according to TRGS 906) should be established., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

Hand protection

Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3

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Remarks	: Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water. German trade association leaflet: Carry gloves (ZH 1/706)
Skin and body protection	: Long sleeved clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. Skin should be washed after contact.
Respiratory protection	: No personal respiratory protective equipment normally required. During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying. German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: No data available
Odour	: No data available
Odour Threshold	: Not relevant
pH	: 8,5
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapour pressure	: not determined
Relative vapour density	: not determined
Relative density	: not determined
Density	: 1,4700 g/cm ³

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Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-
octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.
Incompatible with acids and bases.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

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are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks : Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

Remarks : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

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Mobility : Remarks: No data available

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : .
Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned in 08 01 11*

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation (Annex XIV) : None

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse)

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Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

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Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

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GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

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REACH Information

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DE / EN

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : CapaSilan

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Water-borne coatings

Recommended restrictions : within adequate application - none
on use

1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710
Telefax : +49615471222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49615471202

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsion paint, emission-free and solvent-free

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 20 - < 30
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6 238-877-9 01-2120140278-58		>= 1 - < 10
Kieselguhr, soda ash flux-calcined	68855-54-9 272-489-0 21-2119488518-22		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.
Move out of dangerous area.
If you feel unwell, seek medical advice (show the label where possible).
Never give anything by mouth to an unconscious person.

If inhaled : Move to fresh air.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Do NOT use solvents or thinners.

In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

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rinsing.
If eye irritation persists: Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : The product itself does not burn.
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
Material can create slippery conditions.
Use protective shoes or boots with rough rubber sole.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Prevent further leakage or spillage if safe to do so.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8., For further information see Section 7 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special technical protective measures required.
For personal protection see section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight. Perishable if frozen.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s) : Please follow the technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of			

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	compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Kieselguhr, soda ash flux-calcined	68855-54-9	AGW (Alveolate fraction)	0,3 mg/m ³	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Diatomeous earth can, depending on its origin, contain quartz. The calcining of silica leads to a higher content of cristobalite, activated silica can contain up to 60 vol.% cristobalite. In examining the exposure to (calcined) silica both the amorphous part (limit value for diatomeous earth resp. calcined silica) and the total of the cristobalite and quartz content (carcinogenic according to TRGS 906) should be established., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

Hand protection

Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3

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- Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.
German trade association leaflet: Carry gloves (ZH 1/706)
- Skin and body protection : Long sleeved clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Skin should be washed after contact.
- Respiratory protection : No personal respiratory protective equipment normally required.
During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : No data available
- Odour : No data available
- Odour Threshold : Not relevant
- pH : 8,5
- Melting point/freezing point : not determined
- Boiling point/boiling range : not determined
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : The product is not flammable.
- Upper explosion limit / Upper flammability limit : not determined
- Lower explosion limit / Lower flammability limit : not determined
- Vapour pressure : not determined
- Relative vapour density : not determined
- Relative density : not determined
- Density : 1,4700 g/cm³

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Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-
octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.
Incompatible with acids and bases.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

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are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

Remarks : Repeated contact may cause allergic reactions in very susceptible persons.

Further information

Product:

Remarks : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

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Mobility : Remarks: No data available

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : .
Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned
in 08 01 11*

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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see sections 6-8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation (Annex XIV) : None

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : M-DF01 Water-based paints, solvent-free

. : BSW20 Coating materials, water-based

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

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DE / EN

Definition of Application Areas

Classification of interior and exterior surfaces according to varying climatic stress for choosing suitable paints and coating materials.



Product Description

Field of Application

Exterior and interior surfaces are subjected to varying climatic stress, according to conditions on site and intended use. This has to be considered for choosing suitable coating materials and systems. In some cases it is not accurate enough to divide products only in two classes (exterior/interior use). Particularly in the interiors a wide range of different loads in varying intensity may appear, e.g. caused by changing temperatures, water vapour or condensation.

In normal living spaces, for instance, the room climate usually is constant and non-critical, but can be completely different in production halls or large-scale catering establishments. In all cases the application areas are defined as being interior rooms.

This Technical Information defines 5 different application areas, depending on the climatic conditions on site and the intended use. By means of exact descriptions and listed examples the construction to be coated can easily be classified.

The suitability of each Caparol product for the particular field of application is specified in a special Technical Information.

The classification enables a safe choice of products for varying conditions related to exterior and interior room climate.

Material Properties

Classification of Application Areas

Application Areas		
	Description	Examples
Interior 1	Heated interior spaces with predominantly constant temperatures and normal climatic conditions.	Residences, schools, offices, showrooms, rooms within hotels, special-care homes or healthcare facilities.
Interior 2	Interior spaces/rooms with an occasionally higher air moisture (relative humidity), but without constant forming of condensation water on the surface.	Basement garages, private bathrooms/shower rooms and rooms of similar use, working areas and utility rooms, storage depots and workshops, uninhabited cellar rooms.
Interior 3	Closed, unheated, ventilated interior spaces and heated interior rooms with a permanently higher relative humidity and occasional loads of splash water. Walls and ceilings with a surface temperature temporarily below the dew point.	Canteen kitchens, lavatories, production halls with high water vapour loads, walls and ceilings of indoor swimming pools without permanent loads of splash water, cold rooms.
Exterior 1	Exterior surfaces, not subjected to direct weathering, but stressed by occasionally occurring condensation water or frost-dew loads.	Bottom views (soffits) of balconies, recessed balconies, ceilings of open parking decks, walls and ceilings of passage undergrounds, roofed and protected entrance areas.
Exterior 2	Exterior surfaces subjected to direct weathering.	Conventional façades of buildings, walls and other exterior surfaces, suitable for being coated.

The suitability of Caparol products for the particular application area is indicated in a table within the relevant Technical Information. The following three classes of suitability are possible:

- inapplicable
- o of limited suitability
- + suitable

Class (o) „of limited suitability“ allows the use when special requirements are given on site. Please request our technical assistance (advice), if necessary.

Explanation:

Resistance against moisture, varying temperatures and frost-dew cycles is essential for the durability of a coating. Even when a surface is not subjected to water loads by rainfall water may occur due to condensate when the dew point is reached or exceeded on the surface. The durability of usual paint materials is not noticeably influenced when this condition is only occasional and for a limited period, as for e.g. interior surfaces in kitchen or bathrooms without splash water loads (Application Area: Interior 2). However, in special situations the moisture of condensed water can affect the surface at regular intervals and over a longer period. This may happen in production halls with a high moisture or in other damp locations (Interior 3). In these cases it is advisable to use coating materials with a higher resistance to moisture loads. A similar moisture situation may also appear on surfaces that are supposed to be dry, for example ceilings of open parking decks (Exterior 1). In most cases the construction is made of concrete and reinforcing steel. When the construction cools down during the night and then has contact with warm air by day, condensed water can occur on the surface and may deteriorate unsuitable coating materials.

All these criteria are considered by the classification of Caparol products into individual application areas for choosing the suitable product.

Application

Note

- The appropriate structural protection of component parts (construction elements) must always be guaranteed and has to be sound/intact.
- The suitability of each product for the relative application area applies only for durability of the coating under predominant climatic conditions. Further feasible influences, e.g. soiling, chemical loads, algal or fungal (microbiocidal) attack etc., are not considered and have to be estimated according to the relevant current Technical Information.
- Due to their ingredients façade paints with content of a preservative against deterioration in the coating film against fungal and algal attack are not classified in the classes Interior 1 + 2, even if their climatic durability is given.
- The use of solvent-based paints, enamels and glazes is usually possible in the interiors, but may lead to an unpleasant odour. Hence these products are classified as (o) of limited suitability for interior use (Interior 1, 2, 3).
- The classifications of application areas do not include areas with extremely high loads caused by permanent water condensation and splash water loads such as shower cubicles, steam saunas, sides of the pool/pool edges of indoor swimming pools. In these cases special coating products are required. Please request for special advice, if necessary.

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.

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