



Information  
Capalac Aqua 2K

# Capalac Aqua 2K PU-Lack

Two-component Aqua-Acrylic-Polyurethane Enamel for exterior & interior surfaces, subjected to high chemical and mechanical loads.



## Product Description

Field of Application	For hard-wearing enamel coatings with chemical and mechanical resistance, suitable e.g. for use in public buildings such as playschools, schools, hospitals, catering, storage and production facilities.
Material Properties	<ul style="list-style-type: none"> <li>■ Low odour.</li> <li>■ Non-blocking.</li> <li>■ Noble enamel finish.</li> <li>■ High scratch and shock resistance.</li> <li>■ Proper resistance to chemicals.</li> <li>■ Excellent chalking resistance.</li> <li>■ Weather-resistant.</li> <li>■ High cleanability.</li> <li>■ Resistant to disinfectants.</li> <li>■ Resistant to hand perspiration.</li> </ul>
Material Base / Vehicle	Two-component acrylic polyurethane enamel, water-dilutable.
Packaging/Package Size	<ul style="list-style-type: none"> <li>■ <b>Standard Colour Weiß/White:</b> 750 ml and 2.5 litres, hardener (curing agent) incl.</li> <li>■ <b>ColorExpress:</b> Base W, M and T: 700 ml and 2.4 litres, hardener (curing agent) incl.</li> </ul>
Colours	<ul style="list-style-type: none"> <li>■ <b>Standard Colour:</b> Weiß/White</li> </ul> <p>The standard product can be tinted via the ColorExpress stations (Capamix) in many colour shades of e.g. Caparol 3D PLUS Collection, RAL and other colour collections.</p> <p>When applying colours with lower opacity, such as red, orange or yellow, it is advisable to apply one priming coat using the matching colour shade of our Priming System. Priming System colours are available via the ColorExpress tinting technique for the following products: Capalac Aqua 2 K PU-Lack, Capacryl Haftprimer and Capacryl PU-Vorlack.</p> <p><b>Colour Resistance according to German BFS Data Sheet No. 26:</b>                  Binder: Class A                  Pigmentation: Group 1 to 3, depending on the colour.</p>
Gloss Level	<ul style="list-style-type: none"> <li>■ <b>Silk-matt/semi-gloss (mid sheen; velvet or eggshell-like finish)</b></li> </ul>
Storage	Keep in a cool, but frost-free place. Shelf life: 12 months in original, tightly closed can.
Technical Data	<ul style="list-style-type: none"> <li>■ Density: Approx. 1.15 - 1.25 g/cm<sup>3</sup></li> <li>■ Dry temperature resistance: Max. 120 °C</li> </ul>



Note

Chemical Resistance following DIN EN ISO 12720 at 20 °C		
Substances used for Testing	Residence Time	Evaluation
Aceton	10 sec	small alteration
Butylacetate	10 sec	no alteration
Isopropanol	2 min	small alteration
White spirit	10 min	no alteration
Ammonia	10 min	no alteration
Caustic potash solution	1 h	small alteration
Skin care product (protection cream)	1 h	no alteration
Vinegar	1 h	no alteration
Ethanol	1 h	small alteration
Clean(s)ing agent	1 h	no alteration
Lactic acid	1 h	no alteration
Premium gasoline (4-star)	1 h	modest alteration
Phosphoric acid	1 h	no alteration
Biodiesel	1 h	small alteration
Hand perspiration	1 h	no alteration
Red wine	6 h (hrs)	modest alteration
Mustard	6 h (hrs)	modest alteration
Coffee	16 h (hrs)	modest alteration
Water	16 h (hrs)	no alteration
Cola	16 h (hrs)	no alteration

Explanation:

**No alteration** = No visible changes. The test area is indistinguishable to the ambient surface.

**Small alteration** = The test area is visibly different to the ambient area, but only in case of light reflection, e.g. noticeable due to discolouration or changes in colour or gloss level. The surface texture remains unchanged (no swelling, crack formation or blistering).

**Modest alteration** = The test area is differing to the ambient surface, e.g. due to colour changes, discolouration or variation in gloss level. The surface texture remains unchanged (no swelling, crack formation or blistering).

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

Prime surfaces of building materials, such as dimensionally stable wooden parts, derived timber products, steel, galvanised steel, zinc sheets, aluminium, copper, unplasticized (rigid) PVC, stable existing coatings in- and outdoors.

Do not coat the following surfaces/substrates with Capalac Aqua 2K- PU-Lack:

Stainless steel, anodic/anodized coatings, bronze, brass, surfaces with permanent moisture stress such as showers and swimming pools.

Roofing, flooring, balcony floors, travelled floors.

Limited stable and unstable wood construction elements.

Derived timber material boards and plywood boards (e.g. boards with layers of wood veneer) outdoors.

Substrate Preparation

**Wood/Dimensionally Stable Wood Construction Elements:**

Sand/grind the surface of planed wood in fibre direction, clean thoroughly and remove seeping wood contents, e.g. wood resin/rosin and resin galls, cut sharp edges (Germany: See BFS Data Sheet No. 18). Impregnate wooden parts at risk of blue stain attack outdoors with Capacryl Holzschutz-Grund. Prime with Capacryl Holz-Isogrund.  
Max. wood moisture content (WMC): 12 %.

**Iron, Steel:**

Derust to industry standard SA 2½ (blasting) or ST3 (mechanically) according to DIN EN ISO 12944-4. Prime with Capalac Allgrund, Capalac 2K-EP-Haftgrund or Disbon 481 EP-Uniprimer.

**Zinc/Galvanised Surfaces, Unplasticized (Rigid) PVC:**

Wash with light ammonia solution using sanding pad according to German BFS Data Sheets No. 5 and No. 22 or clean with Multistar 1 : 5 diluted with tap (potable) water using non-woven web. Prepare large galvanised surfaces (zinc) by sweeping technique.  
One priming coat of Capacryl Haftprimer.

**Aluminium, Copper:**

Clean with non-woven web and Multistar, 1 : 5 diluted with tap water. Germany: Follow BFS Data Sheet No. 6.  
One priming coat of Capacryl Haftprimer.

**Existing Paint Coatings:**

Roughen/sand the surface of existing coats slightly and/or treat with alkali. Carefully remove unstable coatings. Prime stable existing coatings with Capacryl Haftprimer. Prepare and prime substrates (when existing coatings have been removed) depending on substrate requirements.

Preparation of Material

Add the hardener (catalyst) to the base, directly before use. Stir intensely by hand or use low-speed paddle mixer (agitator; max. 400 rpm). Then pour into another clean mixing vessel and stir again very thoroughly.  
The material temperature of both components should be 15 °C to 20 °C.

Mixing Ratio

Base : hardener = 9 : 1 parts by volume or  
Base : hardener = 100 g : 9.8 g parts by weight

Method of Application

**Guidelines for Spray Application\*:**

	Ø Nozzle	Spray Pressure	Air Pressure	Dilution
Airless	0.010 - 0.012 inch	220 bar	–	-
Airmix/Aircoat	0.010 - 0.012 inch	200 - 220 bar	2.0 - 2.5 bar	-
Caparol NAST Wagner XVLP FinishControl 5000	NAST-Frontend (Colour: blue)	Air quantity 2/3	–	10 %
High pressure	1.8 - 2.0 mm	–	2.5 bar	15 %

\*Specifications may vary, depending on the device/product manufacturer.

**Application:**

Capalac Aqua 2k PU-Lack can be applied by enamel brush, enamel roller or with spraying equipment. Particularly for spray painting the local prescriptions for environment protection and industrial safety regulations for using isocyanate containing products must be followed.  
Use special brushes, suitable for "aqua-type" (waterborne) enamels, such as Orel-Mix, Friess Blueline or Wistoba 1528 Krex. On larger surfaces apply the product with a short pile (textured) polyamide (nylon) roller and directly roll over with a fine-porous foamed plastic roller or use aqua enamel type brush for reworking.

## Thinning

Capalac Aqua 2K PU-Lack is ready-to-use for application with enamel brush and roller. Dilution is not necessary.  
Dilution with tap (potable) water is possible for spray application, depending on device and spraying method.

## Surface Coating System

Substrate	Use	Substrate Preparation	Impregnation	Priming Coat	Intermediate Coat 1)	Finishing Coat
Wood, derived timber products	interior	sand/clean	–	Capacryl Holz-IsoGrund 2)	Capalac Aqua 2K PU-Lack or Capacryl PU-Vorlack 3)	Capalac Aqua 2K PU-Lack 4)
Dimensionally stable wood	exterior	BFS Nr. 18	Capacryl Holzschutz-Grund	Capacryl Holz-IsoGrund 2)		
Iron, steel	interior	derust/clean	–	Capalac 2K-EP-Haftgrund or Disbon 481 EP-Uniprimer		
Iron, steel	exterior	derust/clean	–	Capalac 2K-EP-Haftgrund or Disbon 481 EP-Uniprimer		
Zinc (galvanised steel)	interior/ exterior	BFS No. 5	–	Capacryl Haftprimer		
Aluminium/copper	interior/ exterior	BFS No. 6	–	Capacryl Haftprimer		
Rigid PVC	interior/ exterior	BFS No. 22	–	Capacryl Haftprimer		
Stable Existing Paint Coatings 5)	interior/ exterior	roughening/alkali treatment	Prepare and prime defective areas depending on substrate requirements	Capacryl Haftprimer		

- 1) Apply two intermediate coats on dimensionally stable wood component parts, in compliance with BFS Data Sheet No. 18.
- 2) Always apply Capacryl Holz-IsoGrund on wood with water-soluble, discolouring substances of content that leave marks (2x for knots).
- 3) Intermediate coat, tinted to match the finishing coat in shade. For reddish, yellowish or orange shades with low opacity (hiding/covering power) a differing colour is mixed via ColorExpress, providing for a better hiding power of the finishing coat. This colour is somewhat differing to provide for a better hiding power of the top coat.
- 4) An additional coat may be necessary when colours of low opacity are used (e.g. shades of yellow/red/orange).
- 5) Note: Adhesion must be tested in advance for powder coatings, coil coatings and other critical substrates by trial coatings on site.

## Consumption

Approx. 100 - 120 ml/m<sup>2</sup> per coat.  
Consumption is only a guide value and may vary, depending on substrate requirements. Determine the exact amount of material required by coating a test area on site.

## Workability

**(Pot Life)**  
2 hours at 20 °C. Higher temperatures shorten, lower temperatures extend the pot life.  
**Note! The end of pot life is not visible. Exceeding of pot life as well as overdosage or underfeeding of hardener leads dramatically to a loss of product properties.**

## Application Conditions

**Low Temperature Limit During Application & Drying:**  
8 °C for product, ambient air and substrate.

## Drying/Drying Time

At 20 °C and 65 % relative humidity (RH).	dust dry	recoatable	cured
after hours	1 - 2	10 - 12	48

Lower temperatures and higher humidity extend the drying time.

## Tool Cleaning

Immediately after use with clean water.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

**Product: For professional users only.**

**Base:**

Keep out of reach from children. 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.

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

Safety data sheet available on request.

In Germany: Advice for allergy sufferers with isothiazolinone allergy: Hotline 0180/5308928 (0.14 €/minute from German landline, MTS max. 0.42 €/minute).

**Hardener:**

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Wear protective gloves/ protective clothing/eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water.

Contains isocyanates. May produce an allergic reaction.

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 empty containers should be handed in 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/d): max. 130 g/l (2010). This product contains max. 110 g/l VOC.

Product Code Paints and Enamels

PU 50 (Germany)

Substances of Content - Declaration

**Base:**

Polyurethane acrylate resin, titanium dioxide, coloured pigments, mineral fillers, water, glycols, glycol ether, additives, preservative (Methyl-/Benzisothiazolinone).

**Hardener:**

Aliphatic polyisocyanate, glycol ether.

Further Details

See Material Safety Data Sheet (MSDS).

Customer Service Centre

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International Distribution: Please see [www.caparol.com](http://www.caparol.com)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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

#### 1.1 Product identifier

Trade name : Capalac Aqua 2K-PU-Lack Masse Basis M

#### 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.**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### 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 : Polyacrylate-based lacquer, aqueous

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
barium sulfate	7727-43-7 231-784-4 01-2119491274-35		>= 5 - < 10
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 5 - < 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).
- 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 : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Remove contact lenses.  
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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.  
Use water spray to cool unopened containers.

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## 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.

### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## 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.  
Use only with adequate ventilation.
- 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 of the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
barium sulfate	7727-43-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	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 <sup>3</sup>	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			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version  
2.0

Revision Date:  
11.12.2017

Print Date  
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Date of last issue: 23.09.2016  
Date of first issue: 23.09.2016

	compounds at the work place dangerous for the health (MAK-commission).			
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (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).			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup> (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).			

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

#### Hand protection

Material : Nitrile rubber  
Break through time : 30 min  
Glove thickness : 0,4 mm

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	Not relevant
pH	:	not determined
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	:	1,2500 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
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

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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### 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.

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## 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 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.

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### 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

#### Components:

##### **barium sulfate:**

Toxicity to fish : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility

Toxicity to algae : Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

### 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:

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

# SAFETY DATA SHEET

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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 : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

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.  
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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### SECTION 15: Regulatory information

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

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

Product code for laquers and : PU50 PU systems, containing solvents, harmful, sensitising  
paints / Giscode

Volatile organic compounds : Directive 2004/42/EC  
< 8 %  
< 100 g/l

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

#### 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; IECSC - 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) 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; 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.**

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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.

### Sources of key data used to compile the Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

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

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

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)

Toxnet - Toxicology Data Network

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

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

#### 1.1 Product identifier

Trade name : Capalac Aqua 2K-PU-Lack Masse

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

Use of the Sub-  
stance/Mixture : Mass

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 Respon-  
sible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber 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.

##### Additional Labelling

EUH210 Safety data sheet available on request.

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

#### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

Restricted to professional users.  
Use P2 dust filter for grinding.  
Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Polyacrylate-based lacquer, aqueous

#### Hazardous components

Remarks : No hazardous ingredients

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### 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).

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 : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Remove contact lenses.  
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.

Unsuitable extinguishing media : None known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

### 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.  
Use water spray to cool unopened containers.

---

## 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.

### 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.

---

## 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.  
Use only with adequate ventilation.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

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) : 10, Combustible liquids

### 7.3 Specific end use(s)

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

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses  
German trade association rules - BGR 192 Eye protection

Hand protection

Material : Nitrile rubber

Break through time : 240 min

Glove thickness : 0,4 mm

Remarks : Wear suitable gloves tested to EN374.  
Before removing gloves clean them with soap and water.

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 : German trade association rules - BGR 190 Breathing protection

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.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Odour : No data available

Odour Threshold : Not relevant

pH : 7

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1,2600 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Decomposition temperature	:	Not applicable
Flow time	:	not determined
Explosive properties	:	Not applicable
Oxidizing properties	:	Not applicable

### 9.2 Other information

No data available

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## 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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

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### 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 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

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 : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

### 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.  
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

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

Product code for laquers and : PU50 PU systems, containing solvents, harmful, sensitising  
paints / Giscode

Volatile organic compounds : Directive 2004/42/EC  
< 9 %  
< 110 g/l

Other regulations : Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

---

## SECTION 16: Other information

### Full text of other abbreviations

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; IECSC - 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) 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; TCSI - Taiwan Chemical Substance Inventory;

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse

Version 2.0

Revision Date 27.06.2017

Print Date 28.06.2017

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.**

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.

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.

#### **Sources of key data used to compile the Safety Data Sheet:**

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. 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

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

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)

Toxnet - Toxicology Data Network

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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

#### 1.1 Product identifier

Trade name : Capalac Aqua 2K-PU-Lack Masse Basis M

#### 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.**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### 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 : Polyacrylate-based lacquer, aqueous

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
barium sulfate	7727-43-7 231-784-4 01-2119491274-35		>= 5 - < 10
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 5 - < 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).
- 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 : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Remove contact lenses.  
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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.

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.  
Use water spray to cool unopened containers.

---

## 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.

### 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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## 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.  
Use only with adequate ventilation.
- 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 of the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
barium sulfate	7727-43-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	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 <sup>3</sup>	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			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version  
2.0

Revision Date:  
11.12.2017

Print Date  
12.12.2017

Date of last issue: 23.09.2016  
Date of first issue: 23.09.2016

	compounds at the work place dangerous for the health (MAK-commission).			
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (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).			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup> (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).			

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

#### Hand protection

Material : Nitrile rubber  
Break through time : 30 min  
Glove thickness : 0,4 mm

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water.

#### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	Not relevant
pH	:	not determined
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	:	1,2500 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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### 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 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### 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

#### Components:

##### **barium sulfate:**

Toxicity to fish : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility

Toxicity to algae : Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

### 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:

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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 : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

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.  
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

### SECTION 15: Regulatory information

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

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

Product code for laquers and : PU50 PU systems, containing solvents, harmful, sensitising  
paints / Giscode

Volatile organic compounds : Directive 2004/42/EC  
< 8 %  
< 100 g/l

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

#### 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; IECSC - 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) 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; 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.**

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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis M

Version	Revision Date:	Print Date	Date of last issue: 23.09.2016
2.0	11.12.2017	12.12.2017	Date of first issue: 23.09.2016

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.

### Sources of key data used to compile the Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

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

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

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)

Toxnet - Toxicology Data Network

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

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

#### 1.1 Product identifier

Trade name : Capalac Aqua 2K-PU-Lack Masse Basis T

#### 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 Respon-  
sible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber 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.

##### Additional Labelling

EUH210 Safety data sheet available on request.

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

#### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

Restricted to professional users.  
Use P2 dust filter for grinding.  
Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Polyacrylate-based lacquer, aqueous

#### Hazardous components

Remarks : No hazardous ingredients

---

### 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).

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 : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Remove contact lenses.  
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.

Unsuitable extinguishing media : None known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

### 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.  
Use water spray to cool unopened containers.

---

## 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.

### 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.

---

## 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.  
Use only with adequate ventilation.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

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 of the manufacturer.

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 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

Remarks : Wear suitable gloves tested to EN374.  
Before removing gloves clean them with soap and water.

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 : German trade association rules - BGR 190 Breathing protection

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.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Odour : No data available

Odour Threshold : not determined

pH : 8,1

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1,1800 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Decomposition temperature	:	Not applicable
Flow time	:	not determined
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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

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### 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 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

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 : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

### 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.  
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

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

Product code for laquers and : PU50 PU systems, containing solvents, harmful, sensitising  
paints / Giscode

Volatile organic compounds : Directive 2004/42/EC  
< 7 %  
< 80 g/l

Other regulations : Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

---

## SECTION 16: Other information

### Full text of other abbreviations

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) 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; TCSI - Taiwan Chemical Substance Inventory;

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

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.**

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.

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.

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

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.

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.

#### **Sources of key data used to compile the Safety Data Sheet:**

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

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

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

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)

Toxnet - Toxicology Data Network

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Masse Basis T

Version 2.0

Revision Date 26.06.2017

Print Date 28.06.2017

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our up-stream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830



## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

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

#### 1.1 Product identifier

Trade name : Capalac Aqua 2K-PU-Lack Härter

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

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)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P260 Do not breathe vapours/ spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection.

**Response:**

P312 Call a POISON CENTER/doctor if you feel unwell.

Hazardous components which must be listed on the label:

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me ether-blocked

**Additional Labelling**

**EUH204** Contains isocyanates. May produce an allergic reaction.

### 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.

Restricted to professional users.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me ether-blocked	160994-68-3	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	>= 50 - < 75

For explanation of abbreviations see section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

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### 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.  
When symptoms persist or in all cases of doubt seek medical advice.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.  
If unconscious, place in recovery position and seek medical advice.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
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 rinsing.  
If eye irritation persists: Get medical advice/ attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Clean mouth with water and drink afterwards plenty of water.

#### 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.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Water

#### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocar-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

bons (smoke).

### 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters

Further information : In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Do not get in eyes, on skin, or on clothing.

### 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.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Contains isocyanates. Please, attend to producer's advice.  
Liquid product may irritate and sensitize skin and respiratory tract and may cause allergic reaction. Do not inhale vapours.  
Take care for sufficient fresh air supply during and after use.  
Product must not be sprayed. Allergics or persons tending to respiratory tract diseases must not be involved in operations with this product.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid exceeding the given occupational exposure limits (see section 8).  
For personal protection see section 8.

Advice on protection against fire and explosion : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

mixtures with air.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking. Avoid contact with the skin and the eyes. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

### 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 between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

Storage class (TRGS 510) : 10, 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

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

German trade association rules - BGR 192 Eye protection

#### Hand protection

Material : Fluorinated rubber  
Glove thickness : 0,7 mm  
Protective index : Class 3  
Wearing time : 480 min

Material : butyl-rubber  
Glove thickness : 0,3 mm  
Protective index : Class 3  
Wearing time : 30 min

Remarks : Wear suitable gloves tested to EN374. Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.  
German trade association leaflet: Carry gloves (ZH 1/706)

Skin and body protection : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Remove and wash contaminated clothing before re-use.  
Long sleeved clothing



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

Respiratory protection : Do not use for spraying.  
When exceeding the WEL substance Limit a respiratory filter Type A is necessary. Class 1 or 2 has to be chosen depending on the workplace concentration.

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 : colourless

Odour : slight

Odour Threshold : Not relevant

pH : Not applicable

Melting point/freezing point : not determined

Initial boiling point and boiling range : ca. 175 °C

Flash point : ca. 61 °C

Evaporation rate : Not applicable

Flammability (solid, gas) : Sustains combustion

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : ca. 15 hPa (20 °C)

Relative vapour density : not determined

Relative density : not determined

Density : 1,065 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : ca. 300 °C

Decomposition temperature : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

Viscosity  
Viscosity, dynamic : ca. 91 mPa.s (20 °C)

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 : Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>.  
Amines and alcohols cause exothermic reactions.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

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

### 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 : Acute toxicity estimate: 16,94 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

### Skin corrosion/irritation

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

### Respiratory or skin sensitisation

**Product:**

Remarks: Causes sensitisation.

### Further information

**Product:**

Remarks: No data is available on the product itself.

Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.

Concentrations above the admissible concentration at the workplace may cause nausea and vomiting.

Concentration substantially above the admissible concentration at the workplace can damage the central nervous system and may cause collapse.

Concentrations substantially above the admissible concentration at the workplace may cause damage of liver and kidney and changes in the blood picture.

Concentrations substantially above the admissible concentration at the workplace may cause unconsciousness.

---

## 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

### 12.4 Mobility in soil

**Product:**

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 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste.  
Uncured product residues and unpurified packaging should be disposed of as hazardous waste.

Waste should not be disposed of via wastewater.

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

Waste Code : used product  
080111\*, waste paint and varnish containing organic solvents or other dangerous substances

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## 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : 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

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 : 1 slightly water endangering  
(Germany) Classification according VwVwS, Annex 4.

Product code for laquers and : PU50 PU systems, containing solvents, harmful, sensitising  
paints / Giscode

. : PU50 PU systems, containing solvents, harmful, sensitising

Volatile organic compounds : Directive 2004/42/EC  
35 %  
< 40 g/l

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H317 : May cause an allergic skin reaction.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - 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) 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; 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.**

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.

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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ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. 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

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

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)

Toxnet - Toxicology Data Network

#### **Classification of the mixture:**

Acute Tox. 4	H332
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 3	H412

#### **Classification procedure:**

Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) 2015/830

## Capalac Aqua 2K-PU-Lack Härter

Version	Revision Date:	Print Date	Date of last issue: 23.02.2016
2.0	04.07.2018	05.07.2018	Date of first issue: 29.01.2016

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### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

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
<b>Interior 1</b>	Heated interior spaces with predominantly constant temperatures and normal climatic conditions.	Residences, schools, offices, showrooms, rooms within hotels, special-care homes or healthcare facilities.
<b>Interior 2</b>	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.
<b>Interior 3</b>	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.
<b>Exterior 1</b>	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.
<b>Exterior 2</b>	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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