

DisboCOR 876 2K-PU Finish



Robust and color stable polyurethane top coat

Product Description

Field of Application	Durabel and decorative top coat for tough corrosion protection of steel and galvanized steel. Mainly for bridges, pipelines, containers, industrial steel constructions, harbor installations, sewage management, corrosion protection for indoor and outdoor surfaces. Very high resistance against chalking and very high color stability.
Material Properties	<ul style="list-style-type: none"> ■ Strong impact and scratch resistance ■ Excellent corrosion protection ■ Very strong resistance against chalking and very high colour stability ■ Approved and monitored acc. to TL/TP-KOR-Stahlbauten, Blatt 87
Material Base / Vehicle	2-component polyurethane
Packaging/Package Size	<ul style="list-style-type: none"> ■ 4.5 kg ■ 12.5 kg ■ 30 kg
Colours	According to RAL - color chart, Stoff-Nr. 687.75 - 687.99
Gloss Level	semi-matt
Storage	Cool, dry and frost-protected Originally closed container 18 months storage-stable. At lower temperature please store the material at 20 °C.
Technical Data	<p>Approved and monitored acc. to TL/TP-KOR-Stahlbauten, Blatt 87</p> <ul style="list-style-type: none"> ■ Density: 1.3 kg/l (depending on colour shade) ■ Flash point: Component A: 31 °C Component B: 30 °C Mixed material: 31 °C ■ Solids content: By volume: approx. 61 % (DIN EN ISO 3233-2)(depending on colour shade) ■ Temperature resistance: Dry: up to 150 °C. Wet: up to approx. 80 °C
Chemical resistance	Good resistance against water, wastewater, seawater, fumes, de-icing salt, occasional fumes of acid and caustic solutions, oils, fats and short term exposure to fuels and solvents.



Application

Suitable Substrates	<p>As part of a system:</p> <ul style="list-style-type: none"> ■ Steel ■ Galvanized steel ■ Compatible, good adhering old coatings ■ Stainless steel and aluminium
Substrate Preparation	<p>The surface has to be dry and free of fat, oil, dirt and dust.</p> <ul style="list-style-type: none"> ■ Prime, intermediate and old coatings: Compatible old coatings can be overcoated after suitable surface preparation and adequate adhesion. When in doubt, a coating test area is recommended. Good adhering coatings are to be cleaned (ISO 8504) and roughened. Corroded spots are to be grit blasted PSa 2 ½ or very thoroughly hand and power tool cleaned PSt 3 or PMa (DIN EN ISO 8501-2) and touched up with a suitable prime coat (e. g. DisboCOR 871 2K-EP Phosphate). Bad adhering coatings are to be removed completely by grit blasting Sa 2½, hand and power tool cleaned St 3 (both DIN EN ISO 8501-1) or water jetting Wa 2½ (ISO 8501-4), flash rust grade M. Alternatively old coatings can be prepared by water jetting until compatible, well adhering coatings or rough steel surface to Wa 2½ (ISO 8501-4), flash rust grade M. ■ Galvanized steel, stainless steel and aluminium: Remove all native and foreign impurities, surface to be prepared by sweep blasting.
Preparation of Material	<p>Stir component A until homogeneous. Then mix component A and B at specified mixing ratio, stir thoroughly (approx. 3 min.) with a slow rotating stirrer (max. 400 r/min). Repot the mixture in a clean pot and stir again thoroughly.</p> <p>Mix only the quantity that can be applied within the pot life.</p>
Mixing Ratio	<p>92 parts by weight comp. A 08 parts by weight comp. B</p>
Method of Application	<ul style="list-style-type: none"> ■ Brush ■ Roller ■ Airless spray application (spray nozzle pressure 180 - 200 bar, nozzle size 0.30 - 0.38 mm respectively 0.012 - 0.015 inch) <p>Thinner allowance (DisboADD 499): At lower temperature max. 3 %, for airless spray application up to 5 % DisboADD 499 can be added, depending on the dry film thickness and application conditions.</p>
Layer Thickness	<p>Dry film thickness 80 µm, equal to 135 µm wet film thickness</p>
Surface Coating System	<ul style="list-style-type: none"> ■ Steel: Prime Coat: 1 x DisboCOR 870 2K-EP Zinkstaub, 1 - 2 x DisboCOR 871 2K-EP Phosphat or 1 - 2 x DisboCOR 872 2K-EP Primer ST Intermediate coat: 1 - 2 x DisboCOR 873 2K-EP Zwischenschicht EG Top coat: 1 - 2 x DisboCOR 876 2K-PU Finish ■ Galvanized Steel: Prime coat: 1 x DisboCOR 873 2K-EP Zwischenschicht EG Top coat: 1 - 2 x DisboCOR 876 2K-PU Finish ■ Stainless steel and aluminium: Prime coat: 1 x DisboCOR 873 2K-EP Zwischenschicht EG Top coat: 1 - 2 x DisboCOR 876 2K-PU Finish
Consumption	<ul style="list-style-type: none"> ■ Theoretical: 0.17 kg/m² at 80 µm DFT ■ Practical: approx. 0.20 - 0.26 kg/m² at 80 µm DFT <p>Consumptions are indicative values depending on surface conditions and application method. Exact values can be determined by testing areas.</p>
Workability	<p>Pot life</p> <ul style="list-style-type: none"> ■ At 10 °C: approx. 7 hours ■ At 20 °C: approx. 5 hours ■ At 30 °C: approx. 4 hours
Application Conditions	<p>Do not apply below 5 °C and above 85 % rel. humidity. Substrate temperature shall be continuously 3 K above the dew point. Inside buildings good ventilation is required.</p>

Drying/Drying Time	<p>Intermediate waiting time</p> <ul style="list-style-type: none"> ■ 1 day <p>Drying time depending on temperature and drying-conditions. Before overcoating, any inherent or foreign impurities must be removed. After longer time periods a suitable surface preparation is mandatory.</p> <p>Final drying period before exposure to moisture:</p> <ul style="list-style-type: none"> ■ At 10 °C: approx. 14 days ■ At 20 °C: approx. 10 days ■ At 30 °C: approx. 7 days <p>At 80 µm DFT and 23 °C:</p> <ul style="list-style-type: none"> ■ drying grade 1 (dust dry): 45 min ■ drying grade 4 (dry to handle): 7 hours ■ drying grade 6 (stackable): 12 hours
Tool Cleaning	Equipment and tools shall be cleaned with DisboADD 499. If not in continuous use, clean tools within the pot life.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<p>Only for professional use.</p> <ul style="list-style-type: none"> ■ Comp. A, White Base: Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Contains: xylene. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methacrylic acid, monoester with propane-1,2-diol, n-butyl acrylate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. ■ Comp. A, Transparent Base: Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Contains: xylene, Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified. Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methacrylic acid, monoester with propane-1,2-diol, n-butyl acrylate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. ■ Comp. B: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. Contains: Hexamethylene diisocyanate, oligomers, xylene, ethylbenzene, hexamethylene-di-isocyanate.
Please Note (Status as at Date of Publication)	As from 24 August 2023 adequate training is required before industrial or professional use.
Disposal	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. Uncured product residues and unpurified packaging should be disposed of as hazardous waste. Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste. Waste should not be disposed of via wastewater.
EU limit value for the VOC content	EU limit value for the VOC content of this product (category A/j): 500 g/l (2010). This product contains max. 500 g/l (2010).
Giscode	Comp. A: RE50 Comp. B: PU50
Customer Service Centre	Tel.: +49 6154 71-71710 Fax: +49 6154 71-71711 e-mail: kundenservicecenter@caparol.de
	International Distribution: Please see www.caparol.com

Technical Information No. 876 · Issue: June 2023

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.876 · DisboCOR 876
2K-PU Finish · Issued: September 2022