

DisboCOR 870 2K-EP Zinkstaub



Fast-drying, 2-component zinc rich epoxy primer for mechanically stressed steel in corrosive atmosphere.

Product Description

Field of Application	Very robust anticorrosive primer for steel constructions, mainly for structural steelwork in corrosive ambient like chemical, industrial or marine atmosphere. DisboCOR 870 2K-EP Zinkstaub is weldable at 20 µm dry film thickness. Do not overcoat with pure alkyd-coatings.
Material Properties	<ul style="list-style-type: none"> ■ zinc rich ■ particularly suitable for structural steelwork with mechanical or chemical exposure ■ fast drying ■ in a system suitable for exposure to water and condensation ■ approved and monitored acc. to TL/TP-Kor-Stahlbauten, Blatt 87
Material Base / Vehicle	2-component epoxy resin containing zinc
Packaging/Package Size	<ul style="list-style-type: none"> ■ 5.5 kg ■ 11 kg ■ 22 kg
Colours	■ grey, Stoff-Nr. 687.03
Storage	Cool, dry and frost-protected Originally closed container 12 months storage-stable. At lower temperature please store the material at 20 °C.
Technical Data	Approved and monitored acc. to TL/TP-Kor-Stahlbauten, Blatt 87. <ul style="list-style-type: none"> ■ Density: 2.8 kg/l ■ Flash point: Component A: 26 °C Component B: 27 °C Mixed material: 26 °C ■ Solids content: Vol. 66 % (DIN EN ISO 3233-2) ■ Temperature resistance: Dry: up to 180 °C, for a short time up to 200 °C. Wet: up to approx. 50 °C
Chemical resistance	In a system resistant against industrial atmosphere, exhaust fumes, diluted inorganic acids, diluted alkaline solutions and salt solutions, many solvents as well as water and condensation.



Application

Suitable Substrates	<ul style="list-style-type: none"> ■ steel 															
Substrate Preparation	<p>The surface has to be dry and free of fat, oil, dirt and dust.</p> <ul style="list-style-type: none"> ■ steel: grid blasting Sa 2½ (DIN EN ISO 8501-1), surface profile medium (G) (ISO 8503-1) 															
Preparation of Material	<p>Stir component A until homogeneous. Then mix component A and B at specified mixing ratio, stir thoroughly (aprox. 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>94 parts by weight comp. A 6 parts by weight comp. B</p>															
Method of Application	<ul style="list-style-type: none"> ■ Brush ■ Roller ■ Airless spray application (spray nozzle pressure 200 bar, nozzle size 0.5 mm respectively 0.02 inch) <p>For airless spray application 2 – 5 % DisboADD 419 can be added, depending on the dry film thickness and application conditions.</p>															
Layer Thickness	<table border="1"> <thead> <tr> <th>dry film thickness</th> <th>wet film thickness</th> <th>application</th> </tr> </thead> <tbody> <tr> <td>40 µm</td> <td>65 µm</td> <td>brush or roller, without thinner</td> </tr> <tr> <td>40 µm</td> <td>70 µm</td> <td>airless spray application, incl. approx. 3 % DisboADD 419</td> </tr> <tr> <td>70 µm</td> <td>115 µm</td> <td>brush or roller, without thinner</td> </tr> <tr> <td>70 µm</td> <td>120 µm</td> <td>airless spray application, incl. approx. 3 % DisboADD 419</td> </tr> </tbody> </table> <p>Do not exceed the average total dry film thickness of 100 µm. Single measured values up to 150 µm are only allowed in small surface areas.</p>	dry film thickness	wet film thickness	application	40 µm	65 µm	brush or roller, without thinner	40 µm	70 µm	airless spray application, incl. approx. 3 % DisboADD 419	70 µm	115 µm	brush or roller, without thinner	70 µm	120 µm	airless spray application, incl. approx. 3 % DisboADD 419
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Surface Coating System	<ul style="list-style-type: none"> ■ Prime coat on steel substrate: <p>Prime coat: 1 x DisboCOR 870 2K-EP Zinkstaub</p> <p>Intermediate coat: 1 x DisboCOR 873 2K-EP Zwischenschicht EG</p> <p>Top coat: DisboCOR 863 ProtectOne EG or DisboCOR 864 ProtectOne, DisboCOR 875 2K-PU Finish EG or DisboCOR 876 2K-PU Finish</p> <ul style="list-style-type: none"> ■ On steel substrate without top coat: <p>1 x DisboCOR 870 2K-EP Zinkstaub</p>															
Consumption	<ul style="list-style-type: none"> ■ Theoretical: 0.30 kg/m² at 70 µm DFT ■ Practical: approx. 0.36 - 0.45 kg/m² at 70 µm DFT 															
Workability	<p>Pot life:</p> <ul style="list-style-type: none"> ■ At 10 °C: approx. 12 hours ■ At 20 °C: approx. 8 hours ■ At 30 °C: approx. 6 hours 															
Application Conditions	<p>Do not apply below 5 °C and above 80% rel. humidity. Substrate temperature shall be continuously 3 K above the dew point. Inside buildings good ventilation is required during application.</p>															
Waiting Time	<ul style="list-style-type: none"> ■ Between DisboCOR 870 2K-EP Zinkstaub and DisboCOR 873 2K-EP Zwischenschicht EG: <p>at least 4 hours (at 23 °C)</p> <p>Drying time is depending on temperature and drying conditions. After longer periods, the surface is recoatable after suitable surface preparation.</p>															
Drying/Drying Time	<p>Degree of dryness 6 (stackability) at 70 µm DFT:</p> <ul style="list-style-type: none"> ■ At 7 °C: 8 hours ■ At 23 °C: 4 hours ■ At 40 °C: 1 hour 															
Tool Cleaning	<p>Equipment and tools are to be cleaned with DisboADD 419. If not in continuous use, clean tools within the pot life.</p>															

Advice

For commercial use only.

■ **Comp. A:** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ eye protection. Collect spillage. **Contains:** reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide).

■ **Comp. B:** Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Very toxic 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Collect spillage. Contains: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified, xylene, Polyaminoamide Adduct, Fatty acids, tall-oil, reaction products with triethylenetetramine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Formaldehyde, oligomeric reaction products with phenol, m-phenylenebis (methylamine), 3,6-diazaoctanethylenediamin, 3-aminopropyldimethylamine, Amines, polyethylenepoly-, triethylenetetramine fraction.

Hotline for questions regarding allergies: 0800/1895000 (free from German landlines). In addition, please refer to the current technical information on this product and its processing at www.disbon.de.

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

of this product (category A/j): 500 g/l (2010). This product contains in Comp. A: max. 300 g/l, in Comp. B: max. 660 g/l.

Giscode

RE50

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