DisboCOR 873
2K-EP Zwischenschicht EG

High built 2-component epoxy intermediate coating with iron mica, also suitable for galvanized surfaces.

Product Description

Field of Application

A versatile overcoatable and high built intermediate coat for all kinds of steel construction, indoors and outdoors, such as bridge constructions, pipelines, containers or hall constructions. Excellent adhesion on galvanized steel under dry conditions. Very robust and highly resilient.

Material Properties

- multipurpose intermediate coat and adhesion primer
- very robust and highly resilient
- excellent protection against corrosion
- very good adhesion on many kinds of metal substrates
- overcoatable with all EP- and PU-coatings
- approved and monitored acc. to TL/TP-KOR-Stahlbauten, Blatt 87

Material Base / Vehicle

2-component epoxy resin containing iron mica

Packaging/Package Size

- 3 kg - to be discontinued
- 4 kg - new package size
- 15 kg
- 32 kg

Colours

DB 701
DB 703, Stoff-Nr. 687.13

Storage

Cool, dry and frost-protected.
Originally sealed containers are 2 years storage-stable.
If material is stored at lower temperatures, please allow the material to warm to 20 °C before application.

Technical Data

Approved and monitored acc. to TL/TP-KOR-Stahlbauten, Blatt 87

Density:	1.6 kg/l
Flash point:	Component A: 23 °C Component B: 25 °C Mixed material: 24 °C
Solids content:	Vol. approx. 60 % (DIN EN ISO 3233-2) (depending on colour shade)
Temperature resistance:	Dry: up to 150 °C, Wet: up to approx. 80 °C

Chemical resistance

Resistant against waste water, condensing water, diluted inorganic acids, diluted alkaline solutions, grease, oil and occasionally impact of solvents and fuel.

Application

Suitable Substrates

As part of a system:

- Steel
- Galvanized steel
- Compatible, well adhering old coatings
- Stainless steel and aluminium

Substrate Preparation

The surface has to be dry and free of fat, oil, dirt and dust.

- **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. Badly adhering coatings must be removed completely by grit blasting Sa 2½, hand and power tool cleanind St3 (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 compatibel, well adhering coating layers or rough steel surface to Wa 2½ (ISO 8501-4), flash rust grade M.
- **Galvanized steel:** remove white rust and other contamination by grinding (abrasive paper or pad), ammonia-water solution containing wetting agent or sweep blasting (DIN EN ISO 12944-4). Corroded spots shall be very thoroughly hand and power tool cleaned PSt3 (DIN EN ISO 8501-1).
- **Old coatings:** well adhering coatings shall be cleaned and roughened. Corroded spots must be very thoroughly hand and power tool cleaned St3 (DIN EN ISO 8501-1).
- **Stainless steel and aluminium:** Remove all native and foreign impurities, surface is to be prepared by sweep blasting.

Preparation of Material

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.
Mix only the quantity, which can be applicated within the pot life.

Mixing Ratio

90 parts by weight comp. A
10 parts by weight comp. B

Method of Application

- Brush
- Roller
- Airless spray application (spray nozzle pressure 150 bar, nozzle size 0.35 mm respectively 0.014 inch)

For airless spray application it is allowed to add up to 5 % DisboADD 419, depending on the dry film thickness and application conditions.

Layer Thickness

Dry film thickness 80 µm, equal to 135 µm wet film thickness

Surface Coating System

- **Steel**:

Prime Coat: 1 x DisboCOR 870 2K-EP Zinkstaub, 1 - 2 x DisboCOR 871 2K-EP Phosphate or 1 - 2 x DisboCOR 872 2K-EP Primer ST.
Intermadiate coat: 1 - 2 x DisboCOR 873 2K-EP Zwischenschicht EG
Top coat:1 - 2 x DisboCOR 875 2K-PU Finish EG or DisboCOR 876 2K-PU Finish

- **Galvanized steel:**

Prime coat: 1 x DisboCOR 873 2K-EP Zwischenschicht EG
Top coat:1 - 2 x DisboCOR 875 2K-PU Finish EG or DisboCOR 876 2K-PU Finish

- **Stainless steel and aluminum:**

Prime coat: 1 - 2 x DisboCOR 873 2K-EP Zwischenschicht EG
Top coat: 1 - 2 x DisboCOR 875 2K-PU Finish EG or DisboCOR 876 2K-PU Finish

Consumption

- Theoretical: 0.21 kg/m² at 80 µm DFT
- Practical: approx. 0.25 - 0.31 kg/m² at 80 µm DFT

Consumptions are indicative values depending on surface conditions and application method. Exact values can be determined by testing areas.

Workability

Pot life
- At 10 °C: approx. 12 hours
- At 20 °C: approx. 8 hours
- At 30 °C: approx 5 hours

Application Conditions

Do not apply below 5 °C and above 80% rel. Humidity. Substrate temperature must be continuously 3 K above the dew point. Inside buildings, good ventilation is required during application.

Waiting Time

- Between DisboCOR 873 2K-EP Zwischenschicht EG and EP-coatings: approx. 1 day
- Between DisboCOR 873 2K-EP Zwischenschicht EG and other coatings: approx. 1 day.

Drying time is dependent on temperature and drying-conditions. Before overcoating, any inherent or foreign impurities must be removed. After longer time periods or after outdoor UV-exposure, a suitable surface preparation is mandatory.

Drying/Drying Time	Degree of dryness 6 (stackability) at 70 µm DFT: ■ At 5 °C: 12 hours ■ At 23 °C: 6 hours
Tool Cleaning	Equipment and tools are to be cleaned wit DisboADD 419. If not in continuous use, clean tools within the pot life.

Advice

Only for professional use.

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

- **Comp. A, DB701**: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. 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. **Contains**: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), xylene, butan-1-ol.
- **Comp. A, DB703:** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. 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. **Contains**: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), xylene, butan-1-ol.
- **Comp. B:** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. 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. **Contains**: xylene, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Formaldehyde, polymer with benzeneamine, hydrogenated, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine), 3,6-diazaoctanethylenediamin.

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	RE70
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