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TECHNICAL DATA SHEET

COROZINC M

moisture hardening polyurethane primer

Art. 1902.0010

Product Description

COROZINC M is a single-component, moisture hardening polyurethane primer wit 92 % zinc content. Especially designed for to be used in subaqueous aereas (hydraulic steel construction). COROZINC M is a corrosion protection primer with optimum resistance and can be overcoated with all saponification resistant (no alkyd resin top coatings. The product can also be applied as Shop-Primer.

Fields of application

Maritime area:	Off- and Onshore, Ship building
Hydaulic construction:	Pressure pipe line, water pipes, gas pipelines, power stations, sheet pilings etc.
Plant construction:	Waste management and watertreatment plants, caverns etc.

Approvals

In combination with COROPUR NON ABRASIVE: BAW approved for use in hydraulic steel; freshwater and in seawater (Im1 and Im2)
www.baw.de/DE/service_wissen/publikationen/quaölitätsbewertung

Binder

Moisture hardening Polyisocyanate

Pigments

Metalic zinc dust powder

Solvents

Aromatic hydrocarbons

Surface pre-treatment

Remove oil and grease residues with solvent or emulsifying agent solutions. Salt residues: Remove with a brush or by steam vapour.
Sand blasting up to standard grade **Sa 2 ½**. Use **sharp- edged abrasive** especially when applied in under-water areas, high-pressure pipelines and welded edge zones. Depth of surface irregularities Segment 2 on "GRIT" disc.

Application Methods

Air- and airless-spray, roller- and brush application

Application Conditions

The relative air humidity is typically between 30 - 98 %
The product also cures at a much lower humidity, but more time is needed.
Object temperature: -5° C (but ice-free!) up to +30°C (no direct sunlight!)

Layer Thickness

30 µm - 150 µm DFT **Attention on low temperature:** retarded drying / more carefully application! There is a risk of sagging and solvent retention!

Coating Recommendations

For COROZINC M the following intermediate- or cover coatings are suitable:
- COROPUR NON ABRASIVE
- COROPUR TAR 21
- COROPUR Cover
- COROPUR iron mica
- COROPUR TAR Standard

COROZINC M can be coated up to 3 months drying time after the surface cleaning.

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Viscosity	On delivery and for brushing viscosity: 40 – 50 " DIN 6 For air spraying: pressure: 3-4 bar; 10-15% thinner, nozzle: 1.5 – 2 mm Airless spraying: pressure: 120-150 bar; 0-5% thinner, nozzle: 0.4-0.5 mm
Thinner	T-1900 (for spraying); A-851 (brush- or roller application) A-851 can also be used at high temperature and by heavy spray dust formation. Quantity of admixture of thinners depends on ambient temperature and type of processing.
Cleaning of equipment	Thinner T-1900 or thinner A-851
Material Consumption (Spraying)	Theoretically for 60 µm: 258 / m^2 Practically for 60 µm: 540 / m^2 The information about practical coverage is an average derived for spray application. The actual coverage can vary depending on object geometry and application mode.
Cleaning of equipment	Thinner T-1900 or thinner A-851
Drying at 20° C, 60 µm DFT	DD 1 30 minutes DD 6 3 hours
Temperature Resistance	+125° C long-term/ permanent (dry); resp. 60° C (moist heat) +180° C **short-term** (dry).
Temp. Corrosion Protection	12 months without cover coating at 60 µm DFT. 30 days without cover coating in case of sea water.
Shelf Life	12 months in unopened original can under cool and dry storing conditions. Cover opened cans with thinner A-851 or T 1900 as close tightly.
Flash Point	> 30°C
Density	2,61 kg/l
Solids	weight 87 ± 2 % volume 58 ± 2 %
Available in cans of	20; 12; 6 kg and 380 kg- drum
Colour	grey

Corrosion Protection Tests

System	Test	Period
1 x 60 µm COROZINC M 1 x 100 µm COROPUR Iron mica 1 x 40 µm COROPUR Cover	Salt spray DIN 53167 Humid chamber DIN 50017	1'000 h 1'000 h
1 x 60 µm COROZINC M 2 x 120 µm COROPUR Iron mica	Salt spray DIN 53167 Humid chamber DIN 50017	2'500 h 2'500 h
1 x 60 µm COROZINC M 2 x 120 µm COROPUR Tar	Salt spray DIN 53167 Humid chamber DIN 50017	2'500 h 2'500 h

Date February 2018 PF

Please pass this data sheet on to the person in charge of the coating.
Above data and recommendations are based on extensive tests and are to be considered only as guidelines without any obligations. As we are continuously developing and improving our products we recommend to consider the date of this data sheet and, if necessary, to ask if there were any changes in the meantime. In case of further questions please contact one of our technical advisors for detailed information.

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