



## TECHNICAL DATA SHEET

# COROZINC

## moisture hardening polyurethane primer

Art. 1901...

### Product Description

COROZINC is a single-component, moisture hardening polyurethane primer with an excellent bonding to sand-blasted surfaces. The dry film is more elastic than the current known 1- or 2-pack primers. COROZINC is a corrosion protection primer with optimum resistance and can be overcoated with all 1- or 2-pack *non saponifying* top coatings (no alkyd resin based products!). The product can also be applied as Shop-Primer.

### Fields of Application

Steel constructions like bridges, facades, pylons, cranes, containers, tanks, caverns etc.

### Binding Agent

Moisture hardening Polyisocyanate

### Pigments

Metalic zinc dust powder

### Solvents

Aromatic hydrocarbons

### Surface pre-treatment

1. Removal of contaminations before sand blasting:
  - Remove oil and grease residues with solvent or emulsifying agent solutions.
  - Remove salt residues with a brush or by steam vapour.
2. Sand blasting, depending on the requirements, up to standard grade Sa 2 1/2.

### Coating Recommendations

For COROZINC the following intermediate- or cover coatings are suitable:  
 - COROPUR iron mica    - COROPUR Cover    - ECLON PUR Cover (all types)  
 - COROPUR TAR        - ECLON EP Enamels

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

### Application Methods

Air- and airless-spray application, brush or roller

### Application Conditions

Relative air humidity: 30 - 98 %  
 Object temperature: -5° C (ice-free) up to +30° C (no solar radiation!)  
 The product also dries on much lower humidity – but needs more time!

### Layer Thickness

30 µm - 150 µm DFT

**Application must be adapted to low temperatures.** The material draws out less quickly and must therefore be applied more evenly.

### Viscosity

50-50" DIN 6 (= delivery and brushing viscosity)

	Pressure	Nozzle	Thinner	
<b>Air Spraying</b>	3 - 4 bar	1,5 - 2,0 mm	T1900	10 -15 %
<b>Airless Spraying</b>	120 - 150 bar	0,4 - 0,5 mm	T1900	0 - 5 %

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**Thinner**

Thinner T-1900 for spray applicaion  
 Thinner A-851 for roller and brush application  
 Quantity of admixture of thinners depends on ambient temperature and type of processing

**Cleaning of equipment**

Thinner A-851 or Thinner T-1900

**Drying**

at 20°C, 60 µm DFT  
 dust dry after: 15 minutes  
 dry to touch after: 30 minutes  
 overcoatable after: 60 minutes

**Temp. Corrosion Protection** 12 months without cover coating at 60 µm TSD.

**Temperature Resistance** +125°C long-term/ permanent (dry)  
 +180°C short-term (dry).

**Corrosion Protection Tests**

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

**Solvent and chemical resistance****Tested substances**

test period (23° C)	hours			hours	
	2	6		2	6
mineral spirit	0	0	Xylol	1	1
Toluol	1	1	Acetone	4	4
Ethanol 50 %	1	2	Ethylglycoacetate	3	4
Heptane	0	0	Octane	0	0
NaOH 20 %	4	5	KOH 20 %	4	5
H <sub>2</sub> SO <sub>4</sub> 20 %	3	5	HCl 10 %	3	5
Na Cl 20 %	0	0	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 20 %	0	0
CaCl <sub>2</sub> 20 %	0	0	KCL 20 %	0	0
Petroleum spirit	0	1	oil (fuel)	0	0
Kerosene	0	1	Skydrol 500 B	0	1
Diesel	0	1	Drilling liquide/oil	0	0
<b>Notes:</b>	<b>0</b> = no change <b>1</b> = hardly visible change <b>2</b> = trace of change, very light swelling <b>3</b> = Changed film; softening <b>4</b> = Strong change, strong softening <b>5</b> = film destroyed				
<b>This judgement is based on the DIN 53230 norm</b>					

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**Material Consumption**  
(Spraying)

Theoretically for 60 µm: 270 / m<sup>2</sup>  
Practically for 60 µm\* 570 / m<sup>2</sup>

\* The information about practical coverage is an average derived for spray application. The compensation of sand blasting roughness is *not* included. The actual coverage can vary considerably, depending on application method and object geometry.

**Density**

2,8 kg/l

**Solids**

weight 87 ± 2 % volume 59 ± 2 %

**Flash point**

> 39° C

**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.

**Available in cans of**

20; 12; 6 and drums with 420 kg

**Colour**

grey

**Range**

Damp-hardening polyurethane primers (Chapter 6)

**Revised**

August 2012 /CT

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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