

# CARAPAX ZINC M

## Moisture curing polyurethane primer

Product code                    SIS CP 00 210PR  
TDS-Code/-Date:                TDS CP 210-EN/02

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### PRODUCT DESCRIPTION

Carapax Zinc M is a single-component, moisture curing polyurethane primer with 92 % zinc content for steel structures with an excellent bonding to sand- blasted surfaces. Carapax-Zinc M is a corrosion protection primer with optimum resistance and can be overcoated with all Carapax top coatings. Carapax Zinc M can also be applied as Shop-Primer.

### BINDING AGENT

Moisture curing polyisocyanate

### PIGMENTS

Metallic zinc dust powder

### SOLVENTS

Aromatic hydrocarbons

### FIELDS OF APPLICATION

**Maritime Sector:** Off-/Onshore, Ship Building

**Steel water engineering:** Water pipes, high-pressure pipelines, gas lines, sheet pilings, power stations

**Plant engineering:** Sewage treatment plants, decomposition plants, caverns

### 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 vapour steam.  
- The substrate must be clean, free from dust or grease, dry, solid and stable.

- » 2. Sand blasting, depending on the requirements, up to standard grade Sa 2 ½ (standard grade Sa 3 in underwater areas, high-pressure pipelines and welded edge zones)

### COATING RECOMMENDATIONS

For Carapax Zink M the following intermediate- or cover coatings are suitable:

- Carapax Ferro
- Carapax Cover RAL
- Carapax Non Abrasive
- Carapax TAR 21

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

### APPLICATION METHODS

Brush-, roller-, air- and airless-spray application

### APPLICATION CONDITIONS

Relative air humidity:        30 - 98 %

Object temperature:        - 5 °C (ice-free) up to + 50 °C.

### LAYER THICKNESS

30 - 150 µm

- » Please pay attention at low temperatures: the material contracts less quickly – be careful while processing!

### VISCOSITY

40 – 50 sec DIN 6 mm (= brushing viscosity)

600 – 800 mPas

### THINNER

Thinner TH 510 Rolling

Thinner TH 520 Spraying

Quantity of admixture of thinners depends on ambient temperature and type of processing.

### AIR SPRAYING

Pressure:                    3 - 4 bar

Nozzle:                      1,5 - 2,0 mm

Thinner:                     10 -15 % TH 520

### AIRLESS SPRAYING

Pressure: 120 - 150 bar  
Nozzle: 0,4 - 0,5 mm  
Thinner: 0 - 5 % TH 520

### CLEANING OF EQUIPMENT

Thinner TH 510 or Thinner TH 520

### 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 DFT.  
30 days without cover coating in case of seawater.

### CORROSION PROTECTION TESTS

1000 hours Salt spray test acc. to DIN 53167  
1000 hours Humid chamber test acc. to DIN 50017  
1 x 60 µm Carapax Zinc M  
1 x 100 µm Carapax Ferro  
1 x 40 µm Carapax Cover RAL ....

2500 hours Salt spray test acc. to DIN 53167  
2500 hours humid chamber test acc. to DIN 50017  
1 x 60 µm Carapax Zinc M  
2 x 120 µm Carapax TAR or  
2 x 120 µm Carapax Ferro

### TEMPERATURE RESISTANCE

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

### SHELF LIFE

12 months in unopened original can under cool and dry storing conditions.  
Cover opened cans with Thinner TH 510 or TH 520 as close tightly.

### DENSITY

2,7 g/cm<sup>3</sup>

### SOLIDS

87 % weight  
58 % volume

### MATERIAL CONSUMPTION

Theoretically: 60 µm DFT 290 g/ m<sup>2</sup>  
The actual need can vary greatly - depending on the object geometry and application. The roughness compensation is not taken into account.

### AVAILABLE IN CANS OF

1 l (ca. 3,0 kg), 5 l (ca. 15 kg), 10 l

### COLOUR

grey

### V.O.C.

307 g/l

### UN-NO.

1263

### RID/ADR/SDR NUMBERS

No product of class 3

### FLASH POINT

+ 34 °C

- » 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.