

Technical Data Sheet

Description:

Epoxy anti-corrosive primer containing zinc powder

Usage:

Fast-drying two-component primer containing zinc powder for severe corrosive atmospheric environment. Suitable for painting steel structures of bridges, stables, dairies, laundries, cans, tanks, vans, underground tanks and pipes. Excellent anti-corrosive protection, very high adhesion, mechanical and chemical resistance. Used only as the the first layer on abrasive blast-cleaned steel to Sa 2½ corresponding to ČSN EN ISO 8501-1. Zinc powder create a cathodic protection of the surface. Applicable by airless spraying, roller or brush. Appropriate top coats ZG 19, ZD 53, PE 33, PE 73 or PE 84 apply after 20 minutes, for higher hardness and faster drying after 16 hours.

Substrate:

Blasted steel

Colours:

VIT 0113

Specific gravity: (ČSN EN ISO 2811-1)

1,99 g/cm³

Solids: (ČSN EN ISO 3251)

by weight 78 %

by volume 48 %

Mixing ratio:

by weight 9 : 1 hardener ZH 93

by volume 4 : 1 hardener ZH 93

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	6,1 m ² /kg	12,1 m ² /liter	164,5 g/m ²
80 µm DFT	3,0 m ² /kg	6,1 m ² /liter	328,9 g/m ²

To reach 40 µm DFT apply 83 µm undiluted paint. Practical spreading rate depends on application method and conditions, shape and roughness of the surface.

Drying: (ČSN 673052)

120 µm WFT, temperature 23 ± 2°C, relative humidity 50 ± 5%, outflow time 60s, ISO outflow cup 6 mm	surface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	10 minut	20 minut	75 minut

Drying and recoatability time strongly depend on wet film thickness, temperature, humidity, ventilation and paint colour. Fully load and measure the coated film after 7 days, laboratory testing after 3 weeks of drying under the above conditions.

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Pot life: (ČSN EN ISO 9514)

5 h., temperature $23 \pm 2^\circ\text{C}$, outflow time 60s, ISO outflow cup 6 mm

Pot life strongly depends on the paint temperature. At temperatures of $30\text{-}40^\circ\text{C}$ it can be half, at temperatures of $5\text{-}10^\circ\text{C}$ it can be several times longer.

Gloss: (ČSN ISO 2813)

Matt 1 GU, angle-wise 60° , outflow time 60s, ISO outflow cup 6 mm

Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup type

Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	ZT 03	ZT 03
by weight	2 %	1 %
by volume	5 %	2 %

Sagging: (ČSN EN ISO 16862)

temperature $23 \pm 2^\circ\text{C}$, relative humidity $50 \pm 5\%$	
outflow time 60s, ISO outflow cup 6 mm	no sagging 300 μm WFT

Application conditions:

The surface must be dry. The air, surface and paint temperature cannot decrease below $+5^\circ\text{C}$ during application and drying. Relative humidity cannot exceed 80%. The surface temperature must be at least 3°C above the dew point.

Surface preparation:

Remove oil, grease, salt and other contamination from the surface with a suitable detergent according to ČSN EN ISO 12944-4.

Steel surfaces: Abrasive blast-cleaning to Sa 2½ corresponding to ČSN EN ISO 8501-1. A lower degree of surface cleanliness is not acceptable for this coating.

Galvanized substrate: This coating material is not intended for a direct application on this type of surface.

Aluminium substrate: This coating material is not intended for a direct application on this type of surface.

Previously painted surfaces: This coating material is not intended for a direct application on this type of surface.

Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of $\text{Ø } 0.011'' - 0.021''$, nozzle pressure: 120 - 180 bar, adjust the angle of application to the shape of the surface. For airmix spraying use the nozzle orifice of 1.5 - 2 mm, nozzle pressure: 3 - 4 bar. For application by brush/roller select appropriate equipment according to the paint type and viscosity.



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Storage:

in the original unopened packaging at temperatures between +5°C and +25°C.

Shelf life:

48 months

Packaging in kg:

18

Notes:

DFT - dry film thickness
WFT - wet film thickness

MS - medium dry matter
HS - high dry matter

GU - Gloss Unit
KU - Krebs unit of viscosity

All information given in this technical data sheet are based on our best knowledge, laboratory test results and practical experience to the date specified below. According to the fact that the conditions of the product's use are out of our control, we can only guarantee the product quality itself. As a producer we cannot be responsible for damage arising from the use of the products without following above recommended instructions or for improper purposes. We reserve the right to change above specified information without prior notice. Always request the actual version of the product data sheet. This technical data sheet replaces all previously released. The validity of the data provided here will be terminated automatically after five years.

