

Technical Data Sheet

Description:

Epoxy paint containing mica ferric oxide.

Usage:

Two-component priming or intermediate coating containing mica ferric oxide. It provides excellent barrier protection of the surface. Suitable for coatings of waterworks, steel structures of bridges, stables, dairies, laundries, cans, tanks, vans, underground reservoirs, reservoirs, pipes and mineral substrates. It has excellent adhesion, insulating ability, chemical and mechanical resistance. It is used as a first layer on zinc-coated surfaces or as a second layer (intermediate layer) on a steel surface treated with paint ZG 16, ZG 11, ZG 13, ZG 17. Iron mica forms a barrier that prevents the penetration of water and oxygen to the substrate. Apply by airless spraying, roller or brush. Appropriate top coats ZD 53, PE 33, PE 73 or PD 84 apply after 30 minutes, for higher hardness and faster drying after 16 hours.

Substrate:

Steel, old and new zinc

Colours:

VIT 0111

Specific gravity: (ČSN EN ISO 2811-1)

1,38 g/cm³

Solids: (ČSN EN ISO 3251)

by weight 66 %

by volume 44 %

Mixing ratio:

by weight 6 : 1 hardener ZH 93

by volume 4 : 1 hardener ZH 93

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	8,1 m ² /kg	11,1 m ² /liter	124,2 g/m ²
80 µm DFT	4,0 m ² /kg	5,6 m ² /liter	248,5 g/m ²

To reach 40 µm DFT apply 91 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)
	20 minutes	60 minutes	3 hours

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.

Technical Data Sheet

Pot life: (ČSN EN ISO 9514)

4 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 6 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	1 %	3 %
by volume	2 %	5 %

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 $300 \mu\text{m}$ 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 $2\frac{1}{2}$, alternatively manual or mechanical cleaning to min. St 3 corresponding to ČSN EN ISO 8501-1.

Galvanized surfaces: For reaching the required roughness use the sweeping method, e.g. using silica sand, alternatively mechanical sanding. At least clean the surface with a suitable detergent. It is recommended to apply a diluted extra first coat on hot-dip galvanized surfaces.

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.



ZG 19

Technical Data Sheet

Storage:

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

Shelf life:

24 months

Packaging in kg:

24

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.

