



ZG 13

Technical Data Sheet

Description:

Epoxy anti-corrosive primer

Usage:

Fast-drying two-component primer for severe corrosive environment. Suitable for painting steel structures of bridges, waterworks, stables, dairies, laundries, cans, residential containers, conveyors, production lines, machinery and equipment, tanks, vans, underground tanks, pipes and mineral substrates. Very high adhesion, corrosive, mechanical and chemical resistance. Resistant against petroleum substances, oils and grease, increased humidity, permanent submersion, dilute acid and alkali solutions. Can be applied by a roller, brush, airless- or airmix- spraying. Appropriate top coats PE 33, PE 73, PE 84, ZE 53, KE 53 or KE 54 apply after 30 minutes, for higher hardness and faster drying after 16 hours.

Substrate:

Steel, new and old zinc, aluminum, mineral substrates (floors)

Colours:

RAL 7035, VIT 0100, VIT 0110

Specific gravity: (ČSN EN ISO 2811-1)

1,47 g/cm³

Solids: (ČSN EN ISO 3251)

by weight 72 %

by volume 52 %

Mixing ratio:

by weight 6 : 1 hardener ZH 93 8 : 1 hardener ZH 95

by volume 4 : 1 hardener ZH 93 5 : 1 hardener ZH 95

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	8,8 m ² /kg	12,9 m ² /liter	114,2 g/m ²
80 µm DFT	4,4 m ² /kg	6,4 m ² /liter	228,3 g/m ²

To reach 40 µm DFT apply 77 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)
	15 minut	90 minut	2 hodiny

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)

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

Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup

Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	ZT 03	ZT 03
by weight	6 %	7 %
by volume	10 %	12 %

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 250 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. Use thinner or the highly effective ecological cleaner CL 07.

Steel surfaces: Abrasive blast-cleaning to Sa 2½, 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 galvanized surfaces. While adhering to this procedure, it is not necessary to use a primer.

Aluminium surfaces: For reaching the required roughness use the sweeping method by a non-metallic abrasive, alternatively mechanical sanding and clean the surface with a suitable diluent. While adhering to this procedure, it is not necessary to use the base paint.

Previously painted surfaces: If the type of old paint is not known, first check the compatibility test. Clean up the oil and grease with thinner or cleaner CL 07, roughen the surface with a grinder. Apply mixed and diluted paint in small area. If the surface is not cracked within 30 minutes, then the coating is completely cured and adherent, the paint can be used for renovation. Treat the corroded places with the recommended primary paint. Observe the compatibility of old and new paints if you are not check the compatibility test.



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Mineral surfaces: Remove oil, grease, salt and other contamination from the surface with a suitable detergent, sanding or blast cleaning as needed. Remove the residual grit by brushing or vacuum cleaning. In case of highly strained systems it is necessary to test the solidity of the mineral surface. Observe the compatibility of preceding and subsequent paints when renovating previously painted surfaces.

Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of Ø 0.011" - 0.021", nozzle pressure: 120 - 180 bar, adjust the angle of application to the shape of the surface. For 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.

Storage:

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

Packaging in kg:

0,6 ; 3 ; 12 ; 24

Notes:

DFT - dry film thickness	MS - medium dry matter	GU - Gloss Unit
WFT - wet film thickness	HS - high dry matter	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.

