ZG 17

Technical Data Sheet

Description:

Priming epoxy high-solid paint (2 in 1)

Usage:

The two-component epoxy coating is intended as a primer for heavy corrosive environments. It is particularly versatile and is suitable for the protection and surface treatment of steel structures such as bridges, water works, stables, dairies, laundries, canneries, residential containers, conveyors, production lines, machinery and equipment, tanks, vats, underground storage tanks, pipes and mineral substrates.

ZG 17 provides excellent adhesion to a variety of surface types, including steel and mineral materials, and provides long-lasting protection through high corrosion, chemical and mechanical resistance. Once cured, it forms a cohesive, impermeable and durable surface that is long lasting, easy to maintain and clean. It is resistant to permanent immersion, exposure to petroleum, oils, grease, alcohol, detergents and dilute acid and alkali solutions. It is the ideal choice for industrial, agricultural and food processing operations where high resistance to mechanical stress, chemicals and moisture is required. It can be applied to metal and mineral substrates in both indoor and outdoor environments. Application is possible with high pressure airless equipment, brush or roller. PE or ZE topcoats can be applied after 2 hours if required, depending on conditions and type of topcoat. For higher hardness, faster drying and smoother surface when applied by brush or roller, it is recommended to apply the topcoat after 16 hours.

Substrate:

Steel, zinc, aluminum, stainless steel, mineral substrates

Colours:

RAL 7032, VIT 0100, VIT 0110, VIT 0840

Specific gravity: (ČSN EN ISO 2811-1)

1,60 ± 0,2 g/cm3

Solids: (ČSN EN ISO 3251)

by weight 88 ± 2 %
by volume 77 ± 2 %

Mixing ratio:

by weight 10 : 1 hardener ZH 96
by volume 6 : 1 hardener ZH 96

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	12,0 m2/kg	19,2 m2/liter	83,3 g/m2
80 µm DFT	6,0 m2/kg	9,6 m2/liter	166,7 g/m2

To reach 40 µm DFT apply 52 µm undiluted paint. Practical spreading rate depends on application method and conditions, shape and roughness of the surface.

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Drying: (ČSN 673052)

120 µm WFT, temperature 23 ± 2°C, relative humidity 50 ± 5%, outflow time 60s, ISO outflow cup 6 mm	suface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	70 minutes	2,5 hour	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.

Pot life: (ČSN EN ISO 9514)

2 h., temperature 23 ± 2°C, outflow time 60s, ISO outflow cup 6 mm
Pot life strongly depends on the paint temperature. At temperatures of 30-40°C it can be half, at temperatures of 5-10°C it can be several times longer.

Gloss: (ČSN ISO 2813)

Semi-matt 30 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	0 - 7 %	0 - 9 %
by volume	0 - 13 %	0 - 17 %

Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 5%	
outflow time 60s, ISO outflow cup 6 mm	no sagging 450 µm WFT

Application conditions:

The surface must be dry. The air, surface and paint temperature cannot decrease below +5°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 machanical cleaning to min. St 3 corresponding to ČSN EN ISO 8501-1.

Stainless steel surfaces: For reaching the required roughness use mechanical or manual sanding. Clean the surface with a ecological cleaner CL 07.

Galvanized surfaces: For reaching the required roughness use the sweeping method, e.g. using silica sand, alternatively mechanical

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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 a primer.

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, 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.

Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of Ø 0.031" - 0.021", pressure: 160 - 240 bar according to type of nozzle, device and measuring , 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:

15 ; 30

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.

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