EG 11

Technical Data Sheet

Description:

Epoxy ester anti-corrosive primer

Usage:

Fast drying one-component primer for medium and heavier corrosive atmospheric environment. It has an excellent adhesion, corrosion and chemical resistance. It is resistant to aliphatic solvents and lower alcohols, detergents and high humidity. Can be applied by airless- or airmix- spraying, brush or roller. Appropriate top coats HAE, KE 53, PE or S 2013 apply after 30 minutes, for higher hardness and faster drying after 16 hours. Not recommended the use of epoxy top-coats!

Substrate:

Steel, old and new zinc

Colours:

RAL 7035, VIT 0840

Specific gravity: (ČSN EN ISO 2811-1)

1,31 g/cm3

Solids: (ČSN EN ISO 3251)

by weight 62 %
by volume 42 %

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	8,0 m2/kg	10,5 m2/liter	124,9 g/m2
80 µm DFT	4,0 m2/kg	5,2 m2/liter	249,8 g/m2

To reach 40 µm DFT apply 95 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	suface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	10 minutes	30 minutes	70 minutes

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.

Gloss: (ČSN ISO 2813)

Matt 2 GU, angle-wise 60°, outflow time 60s, ISO outflow cup 6 mm

Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup type

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Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	KT 05	KT 05
by weight	not dilute	not dilute
by volume	not dilute	not dilute

Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 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°C during application and drying. Relative humidity cannot exceed 80%. The surface temrepature 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 21, alernatively manual or mechanical cleaning to min. St 3 corresponding to ČSN EN ISO 8501-1.

Galvanized surfaces: For reaching the required adhesion of the paint to the new hot-dip galvanized surfaces, the surface must be treated with a solution of ammonia water, which is prepared by mixing 5l of water, 0,25l of ammonia water (25% concetration) and 25ml of detergent. The surface is washed with the prepared solution until a gray foam is formed. This is followed by washing the foam off with the clean water. The paint can be applied after the surface is completely dry. When using this method the paint can be applied directly to the new hot-dip galvanized surface without a base paint.
For galvanized and older hot-dip galvanized surfaces, the required adhesion of the paint is fixed by manual roughening and subsequent washing with the ecological cleaning agent CL 07.

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.

Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of O 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.

Storage:

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

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Packaging in kg:

0,7; 3,5; 12; 25

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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