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Technical Data Sheet

Description:

Polyurethane anticorrosive primer

Usage:

Ultra-fast-drying two-component primer. Very high adhesion, corrosive and chemical resistance. It is resistant against increased humidity, petroleum substances, oils, grease, alcohol and common cleaning products. Applicable by airless- or airmix-spraying, a brush or a roller. Top coats KD 53, KD 54 or S 2013 apply 40 minutes after the first layer, for brush/roller is recommended to apply the second layer after 16 hours

Substrate:

Steel, old and new zinc, wood, mineral substrates

Colours:

RAL 7035, VIT 0100, VIT 0110

Specific gravity: (ČSN EN ISO 2811-1)

1,37 g/cm³

Solids: (ČSN EN ISO 3251)

by weight 65 %

by volume 46 %

Mixing ratio:

by weight 20 : 1 hardener PH 93

by volume 17 : 1 hardener PH 93

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	8,3 m ² /kg	11,4 m ² /liter	120,7 g/m ²
80 µm DFT	4,1 m ² /kg	5,7 m ² /liter	241,4 g/m ²

To reach 40 µm DFT apply 87 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	40 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.

Pot life: (ČSN EN ISO 9514)

3 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.

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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

Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	PT 03	PT 03
by weight	5 %	13 %
by volume	8 %	20 %

Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 5%	
outflow time 60s, ISO outflow cup 6 mm	no sagging 600 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.

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-dip galvanized surfaces.

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.

Wooden surfaces: The surface must be dry and cleaned of contamination, wax, grease, flaking and incoherent material. Fill cracks and holes with a stopper on wood. Sand all filled and glossy surfaces. Remove the residual dust by vacuum cleaning. In case of increased risks apply an insecticidal and an antifungal agent. As a renovation coating apply one or two layers of paint, as a priming coat of uncoated wood apply two or three layers according to the structure of wood. For reaching the highest quality gently sand the surface with a sandpaper Nr. 240 after every coat.

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.



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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 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.

Shelf life:

48 months

Packaging in kg:

10; 20; 200

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.

