KE 54

Technical Data Sheet

Description:

Self-priming alkyd-urethane paint 3in1

Usage:

High-quality alkyd-urethane primer and top-coat (3 in 1) universally applicable on small or large areas. Suitable for interior or exterior coatings of steel constructions, pallets, conveyors, containers, transport boxes and wood without a priming coat. The advantage of urethaneized binder is higher color fastness, UV-durability and mechanical resistance. It can be applied by airless- or airmix-spraying, by a roller or a brush. The second layer of KE 54 can be applied 40 minutes after the first layer, for brush/roller is recommended apply the second layer after 12 hours.

Substrate:

Steel, wood

Colours:

RAL, VIT

Specific gravity: (ČSN EN ISO 2811-1)

1,26 g/cm3

Solids: (ČSN EN ISO 3251)

by weight 68 ± 2 %

by volume 51 ± 2 %

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	10,4 m2/kg	13,2 m2/liter	96,0 g/m2
80 µm DFT	5,2 m2/kg	6,6 m2/liter	192,0 g/m2

To reach 40 µm DFT apply 78 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)
	90 minutes	3 hours	4 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.

Gloss: (ČSN ISO 2813)

Gloss 80 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 01	KT 04
by weight	6 %	6 %
by volume	9 %	9 %

Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 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°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 substrate: Appropriate recomended priming coat necessary. This coating material is not intended for a direct application on this type of surface.

Aluminium substrate: Appropriate recomended priming coat necessary (e.g. ZG 13). This coating material is not intended for a direct application on this type of surface.

Previously painted surfaces: Remove oil, grease, salt and other contamination from the surface with a suitable detergent, sanding of the surface recommended. Repair all damage to the coating with an anticorrosive primer. Observe the compatibility of preceding and subsequent coats.

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.

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; 10; 25

Packaging of base 0100 in kg:

0,686; 3,43; 9,8; 24,5

Packaging of base 0000 in kg:

0,56; 2,8; 8; 20

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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