



KG 13

Technical Data Sheet

Description:

Anti-corrosive urethane alkyd primer

Usage:

High-quality fast-drying primer for small and large areas. Suitable for steel constructions, residential containers, halls, conveyors, production lines, machinery, facilities and wood. The main advantage of this product is the possibility of overcoating with 2K PUR finishing enamels just after one layer of KG 13 (e.g. apply KG 13 as an interlayer during renovation of old unknown coatings). It can be applied by a roller, brush or spraying. Appropriate finishing coats KD 53, KD 54, S 2013, PE 33, PE 73 or PE 84 apply after 30 minutes. For higher hardness, softer surface, faster drying or by use brush/roller apply top coat after 16 hours. KG 13 is weldable at 20-30 μm DFT.

Substrate:

Steel, wood

Colours:

RAL 7035, VIT 0110, VIT 0840

Specific gravity: (ČSN EN ISO 2811-1)

1,37 g/cm³

Solids: (ČSN EN ISO 3251)

by weight 67 %

by volume 45 %

Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 μm DFT	8,1 m ² /kg	11,1 m ² /liter	123,4 g/m ²
80 μm DFT	4,1 m ² /kg	5,6 m ² /liter	246,8 g/m ²

To reach 40 μm DFT apply 89 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 \pm 2°C, relative humidity 50 \pm 5%, outflow time 60s, ISO outflow cup 6 mm	surface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	20 minutes	30 minutes	55 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 01	KT 02
by weight	3 %	5 %
by volume	5 %	8 %

Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 5%	
outflow time 60s, ISO outflow cup 6 mm	no sagging 225 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 mechanical cleaning to min. St 3 corresponding to ČSN EN ISO 8501-1.

Galvanized surfaces: This coating material is not intended for this type of surface.

Aluminium surfaces: This coating material is not intended for this type of surface.

Previously painted surfaces: Remove oil, grease, salt and other contamination from the surface with a ecological cleaner CL 07, sanding of the surface recommended. 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 layer of paint, as a priming coat of uncoated wood apply two 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 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.

Shelf life:

48 months



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Packaging in kg:

0,7; 3,5; 12; 25; 250

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.

