

## Technical Data Sheet

### Description:

Epoxy top-coat

### Usage:

Finishing coat in severe corrosive atmospheric environment. Very high mechanical and chemical resistance. It is resistant against petroleum substances, oils and grease, increased humidity, permanent submersion, dilute acid and alkali solutions. For the highest performance use airless spraying. For steel surfaces use an appropriate priming coat. A direct enamel application is possible only on galvanized, aluminium and mineral surfaces. Appropriate priming and intermediate coats: ZG 11, ZG 13, ZG 16, ZG 17, ZG 18, ZG 19.

### Substrate:

Steel, new and old zinc, aluminum, mineral substrates (floors)

### Colours:

RAL, VIT

### Specific gravity: (ČSN EN ISO 2811-1)

1,33 g/cm<sup>3</sup>

### Solids: (ČSN EN ISO 3251)

by weight 67 %

by volume 48 %

### Mixing ratio:

by weight 3 : 1 hardener ZH 93

by volume 2 : 1 hardener ZH 93

### Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
40 µm DFT	9,1 m <sup>2</sup> /kg	12,1 m <sup>2</sup> /liter	109,7 g/m <sup>2</sup>
80 µm DFT	4,6 m <sup>2</sup> /kg	6,1 m <sup>2</sup> /liter	219,3 g/m <sup>2</sup>

To reach 40 µm DFT apply 83 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%, mixed and diluted to a viscosity of 60s, ISO outflow cup 6mm	surface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	45 minutes	3 hours	5 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.



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### Pot life: (ČSN EN ISO 9514)

4 h., temperature  $23 \pm 2^\circ\text{C}$ , mixed and diluted to a viscosity of 60s, ISO outflow cup 6mm

Pot life strongly depends on the paint temperature. At temperatures of  $30\text{-}40^\circ\text{C}$  it can be half, at temperatures of  $5\text{-}10^\circ\text{C}$  it can be several times longer.

### Gloss: (ČSN ISO 2813)

High gloss 95 GU, angle-wise  $60^\circ$ , mixed and diluted to a viscosity of 60s, ISO outflow cup 6mm

### Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup

### Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	ZT 03	ZT 03
by weight	3 %	8 %
by volume	5 %	13 %

### Sagging: (ČSN EN ISO 16862)

temperature $23 \pm 2^\circ\text{C}$ , relative humidity $50 \pm 5\%$	
mixed and diluted to a viscosity of 60s, ISO outflow cup 6mm	no sagging $250 \mu\text{m}$ WFT

### Application conditions:

The surface must be dry. The air, surface and paint temperature cannot decrease below  $+5^\circ\text{C}$  during application and drying. Relative humidity cannot exceed 80%. The surface temperature must be at least  $3^\circ\text{C}$  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  $2\frac{1}{2}$ , 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 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 the base paint.

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.





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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. Use RK 975 STOPPER for touch-up repairs, leveling and smoothing of the surface. 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.

### Application method:

Spray guns, brush, roller. For airless spraying use the nozzle orifice of  $\varnothing$  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

### Packaging in kg:

0,6; 3; 12; 24; 240; 1000

### Packaging of base 0100 in kg:

0,6; 3; 12; 24; 240; 1000

### Packaging of base 0000 in kg:

0,5; 2,5; 9; 18; 240; 1000

### 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.

