Epex ZP Grund 3E750

Series 3E750 · 2K epoxy zinc-phosphate primer with high corrosion protection

01 PRODUCT DESCRIPTION

Epex ZP Grund 3E750 is a two-component epoxy zinc-phosphate primer for blast-cleaned steel sheet with high corrosion protection, particularly for machinery, containers and vehicles. The zinc-phosphate-based system forms a silk-matt, well-adhering base coat that serves as a corrosion-protection primer for subsequent topcoats. The primer can be economically applied by brush and by airless and air spraying and provides durable protection of metallic substrates.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Bergolin EP Hardener 7E750
Adjustment thinner	EP Thinner 5E403
Cleaning thinner	EP Thinner 5E403
Characteristics	Low solvent · Excellent corrosion protection
Color shade	RAL color shades
Gloss	Silk matt
Shelf life	12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *¹	Approx. 1.55 g/cm³	Approx. 0.93 g/cm³	Approx. 1.50 g/cm³
VOC content · IE Directive 2010/75/EU *¹	Approx. 422 g/l	Approx. 376 g/l	Approx. 417 g/l
Solid content (wt.-%) · SDS *¹	Approx. 79.8 %	Approx. 57.6 %	Approx. 74 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C *¹	Approx. 3,200 mPas	Approx. 53 s (4 mm DIN)	Approx. 2,500 mPas

*¹ *Depending on color shade*

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03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	Steel (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** The substrate must be dry and free of scale, lubricants, dust, dirt, grease, oil and other contaminants.
Mixing ratio	100 : 10 by weight
Theoretical consumption	Approx. 215 g/m² at approx. 80 µm DFT
Application method	Brush Airless / air spraying
Application conditions	**Air temperature** +10 °C to +35 °C **Relative humidity** 20–80 % **Dew point** min. 3 °C below surface temperature
Working time[*2]	Approx. 8 h
Recoating interval (with itself)[*2]	Min. 12 h | max. 48 h
DRYING[*2]	
Dust-dry (TG 1)	Approx. 1 h
Fully dried (TG 7)	Approx. 6 h
Fully cured (mech. & chem.)	Approx. 7 days
Compatible systems	Various intermediate coatings (on request) Various topcoats and finish coatings (on request)

[*2] *Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.*

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04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

MODIFIED BY

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management