EPEX-EISENGLIMMER 80 6E750

Series 6E750 · High-build 2K epoxy intermediate coating with micaceous iron oxide and good corrosion protection

01 PRODUCT DESCRIPTION

Epex-Eisenglimmer 80 6E750 is a high-quality, high-build two-component epoxy intermediate coating pigmented with aluminium and micaceous iron oxide. The lamellar structure of the micaceous iron oxide forms a dense, overlapping barrier: it extends the diffusion path for water and corrosive media, improves edge coverage and additionally protects the underlying layers against UV radiation. This results in excellent corrosion protection properties. It is used as an intermediate coat in multi-coat corrosion protection systems on steel as well as zinc/aluminium – typically over a zinc-dust or zinc-phosphate primer and beneath a light-fast polyurethane topcoat. Its high-build application allows high dry film thicknesses to be achieved in a single coat, making the system build-up economical in steel and plant construction. The coating is easily overcoatable and suitable for components in higher corrosivity categories.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Bergolin EP Hardener 7E750
Adjustment thinner	Bergolin Thinner 5E403
Cleaning thinner	Bergolin Thinner 5E403
Characteristics	Corrosion protection · High-build · MIO-pigmented
Color shade	DB 702, mica grey (further shades on request)
Gloss	Satin gloss
Shelf life	Approx. 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. 1.65 g/cm³	Approx. 0.93 g/cm³	Approx. 1.58 g/cm³
Solid content (wt.-%) · SDS *1	Approx. 65.7 %	Approx. 57.6 %	Approx. 65.0 %
Solid content (vol.-%) · SDS *1	Approx. 35.0 %	Approx. 54.7 %	Approx. 36.8 %
Viscosity · +20 °C	Approx. 3,500 mPas · ISO 2555	Approx. 53 s (6 mm) · ISO 2431	Approx. 2,500 mPas · ISO 2555

*1 *Depending on colour 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, zinc/aluminium (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** Surface preparation to EN ISO 12944-4; free from weld spatter, pores, overlaps, burrs, grease, oil and dirt. Blast-clean to Sa 2½. Primer: EPEX Zinkstaub, consumption approx. 320 g/m² at 60 µm dry film thickness, or EPEX ZP Grund, consumption approx. 240 g/m² at 80 µm dry film thickness. **Zinc/aluminium:** Degrease the surface and mechanically abrade or sweep-blast. Primer: Superdur Unigrund, consumption approx. 160 g/m² at 50 µm dry film thickness (galvanised steel).
Mixing ratio	10 : 1 by weight
Mixing	Add the hardener component completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the thinner and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 0.26 kg/m² at 80 µm dry film thickness
Application method	Brush · Roller · Airless spraying
Application conditions	**Application temperature** > +8 °C (above +20 °C accelerated curing) **Relative humidity** max. 85 % **Dew point** Object temperature min. 3 °C above dew point
Pot life[*2]	Approx. 8 h
DRYING[*2]	
Dust-dry (TG 1)	Approx. 1 h
Through-dried (TG 7)	Approx. 8 h (at 100 µm wet film thickness) | forced approx. 1 h at 80 °C or 30 min at 120 °C
Fully load-bearing (mech. & chem.)	After full curing, approx. 7 days
Compatible systems	Primer steel: EPEX Zinkstaub or EPEX ZP Grund Primer zinc/aluminium: Superdur Unigrund Further applications 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

07.09.2026 – Martin Krull, Head of Laboratory

APPROVED BY

07.09.2026 – Stefan Eisenmenger, Product Management