

BERGOLIN DB-EP-EISENGLIMMER 150

Series 6E820 · Low-solvent, thixotropic 2K EP micaceous iron oxide intermediate coating with high film build



01 PRODUCT DESCRIPTION

Bergolin DB-EP-Eisenglimmer 150 6E820 is a high-quality, high-build two-component epoxy intermediate coating pigmented with aluminium and micaceous iron oxide. Its high solid content and thixotropic character allow high dry film thicknesses of up to 150 µm to be achieved in a single coat – while keeping the solvent content low. 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 and mechanical 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.

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	 Low solvent	 Mechanically resistant
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. 1.80 g/cm³	Approx. 0.94 g/cm³	Approx. 1.70 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 329.1 g/l	Approx. 376.0 g/l	Approx. 333.3 g/l
Solid content (wt.-%) · SDS *1	Approx. 82 %	Approx. 58 %	Approx. 80 %
Viscosity · +20 °C	Approx. 3,600 mPas · ISO 2555	Approx. 60 s (6 mm) · ISO 2431	Approx. 2,000 mPas · ISO 2555

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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, mean roughness Rz approx. 50–70 µm. Primer: EPEX Zinkstaub, consumption approx. 320 g/m² at 60 µm dry film thickness, or EPEX ZP Grund, consumption approx. 240 g/m² at 60 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	100 : 10 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. 465 g/m² at 150 µm dry film thickness (spray application)
Application method	 Brush  Airless/ Airmix spraying  Cup spray gun
Application conditions	 Application temperature min. +10 °C air temperature  Relative humidity max. 85 %  Dew point Object temperature min. 3 °C above dew point
Pot life ^{*1}	Approx. 8 h
DRYING^{*1}	
Dust-dry	Approx. 1 h
Touch-dry	Approx. 8 h
Compatible systems	Primer steel: EPEX Zinkstaub or EPEX ZP Grund Primer zinc/aluminium: Superdur Unigrund Further applications on request.

^{*1} The data refer to an ambient temperature of +20 °C; deviating ambient conditions may extend or shorten the stated periods.

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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