

Bergolin 2K Aqua Shopprimer 3E6100

Series 3E6100 · Waterborne 2K epoxy shop primer with excellent corrosion protection for blast-cleaned steel



01 PRODUCT DESCRIPTION

Bergolin 2K Aqua Shopprimer 3E6100 is a waterborne two-component epoxy shop primer for priming pre-cleaned or blast-cleaned steel substrates. Developed for economical use in industrial steel fabrication, it provides excellent corrosion protection even at low film thicknesses. The coating offers very good adhesion and fast drying and is suitable for welding. It can be applied economically by airmix and, thanks to its waterborne formulation, has a low VOC content.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin system
Hardener system	Bergolin Hardener 7E6000
Cleaning thinner	First flush equipment thoroughly with water; if necessary clean with Hydro Thinner 5P048.
Characteristics	 Waterborne  Good corrosion protection  Excellent adhesion  Fast drying
Color shade	Grey, green (further color shades on request)
Shelf life	12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Approvals and specifications	Weldability test to DIN EN ISO 17652-2:2003-07 (DVS SLV Duisburg, test report 2402.P0309A) DNV-GL Type Approval (certificate TAK00002E0)

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C "	Approx. 1.34 g/ml	Approx. 1.07 g/ml	Approx. 1.31 g/ml
VOC content · IE Directive 2010/75/EU "	Approx. 47.4 g/l	Approx. 0 g/l	Approx. 42.1 g/l
Solid content (wt.-%) · in mixture "	–	–	Approx. 54.5 %
Viscosity · DIN EN ISO 2555 (4 mm) · +20 °C	Approx. 28–38 s	Approx. 10–20 s	Approx. 35–45 s

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	Ground steel, blast-cleaned steel sheet Sa 2½ (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. Steel: Surface preparation to EN ISO 12944-4. Free of weld spatter, pores, laps, burrs, grease, oils and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS).
Mixing ratio	80 : 10 by weight 65 : 10 by volume
Mixing	Add the hardener component to the base component and mix intensively with an electric or pneumatic stirrer for approx. 1 min.
Theoretical consumption	Approx. 65 g/m² in mixture at 20 µm DFT
Film thickness	Approx. 25 µm DFT / 50 µm WFT
Standvermögen	100 µm wet
Spritzviskosität	35–45 s / 4 mm (DIN flow cup)
Application method	 Spraying (cup gun / airmix)
Application conditions	 Application temperature +15 °C to +35 °C  Relative humidity 30–85 %
Pot life ^{*2}	Approx. 2 h
DRYING^{*2}	
Drying grade 1 (dust-dry)	Approx. 4 min at +20 °C
Drying grade 7 (through-dry)	Approx. 220 min at +20 °C (50 µm WFT)

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

Forced drying can be used to reach drying grade 7 (e.g. 2 min at RT, 10 min at 80 °C, 5 min cooling at RT).

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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