BERGOLIN 2C GELCOAT 2E2500

Series 2E2500 · Transparent, solvent-free 2K gelcoat for rotor blades of wind turbines

01 PRODUCT DESCRIPTION

Bergolin 2C Gelcoat 2E2500, colorless is a transparent, solvent-free two-component liquid plastic (gelcoat) based on epoxy resin for the rotor blades of wind turbines. It is applied as a surface-forming gelcoat layer in the mould process and subsequently laminated over; the solvent-free adjustment ensures a true-to-mould blade surface. Integrated UV absorbers permit temporary outdoor storage of still uncoated rotor blades without UV light damaging the substrate. Thanks to its very good sandability it is easy to rework and provides a pore-free basis for subsequent coatings.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Bergolin Hardener 7E2500-2
Cleaning thinner	EP Thinner 5E403
Characteristics	Solvent-free · Transparent · Light-fast
Color shade	Colorless
Gloss	Form dependent
Shelf life	Comp. A approx. 12 months, comp. B 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	Approx. 1.26 g/cm³	Approx. 1.05 g/cm³	Approx. 1.21 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 0 g/l	Approx. 0 g/l	Approx. 0 g/l
Solid content (wt.-%) · SDS	Approx. 100 %	Approx. 84 %	Approx. 96 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 17,000 mPas	Approx. 800 mPas	Approx. 11,000 mPas

03 APPLICATION

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

Substrate	GRP (further substrates on request)
Surface preparation	Apply a suitable release agent to the surface.
Mixing ratio	100 : 27.5 by weight | 3 : 1 by volume

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Mixing	Add the hardener component completely to the base component and mix intensively with an electric stirrer for approx. 5 min. Then transfer into a clean container and mix intensively again. Alternatively, processing with a suitable 2K dosing system. Before starting, the unit should be volumetrically calibrated (litre check) and any deviations in the mixing ratio corrected. Maximum permissible deviation ± 3 %.
Theoretical consumption	Approx. 0.320 kg/m² at 250 µm layer thickness
Application method	Rolling
Application conditions	**Object temperature** +50 °C to +60 °C **Relative humidity** < 80 %
Pot life[*1]	Approx. 22 min
Working time[*1]	Approx. 7 min at +50 °C object temperature
DRYING	
Can be laminated / covered	Approx. 30 min at +50 °C object temperature
Compatible systems	The product can be combined with numerous other products from the Bergolin wind-energy portfolio to form a coordinated coating system. We will be glad to help you determine the suitable system combination – please contact our Technical Service.

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

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

05.10.2026 – Martin Krull, Head of Laboratory

APPROVED BY

05.10.2026 – Stefan Eisenmenger, Product Management