

Bergolin Topcoat 6D2300-1

Series 6D2300-1 · Water-dilutable, fast-drying 2K PU topcoat for wind turbine rotor blades



01 PRODUCT DESCRIPTION

Bergolin Topcoat 6D2300-1 is a water-dilutable, fast-drying two-component polyurethane topcoat for the rotor blades of wind turbines. As a water-based formulation it enables low-emission, low-odour working and dries quickly, allowing short cycle times in production and repair. It offers very good resistance to mechanical and chemical stress as well as excellent color stability and provides durable protection of the blade surface. It is particularly suitable for roller application.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate
Hardener system	Bergolin Hardener 7D1900
Adjustment thinner	Max. 3 % water
Cleaning thinner	Water, then Superdur Thinner 5D402 (if required)
Characteristics	 Waterdilutable  Fastdrying  Mechanically resistant  Chemical-resistant  Colorstable
Color shade	RAL 7038 (further color shades on request)
Gloss	< 10 GU (60°) · DIN EN ISO 2813
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. 1.36 g/cm³	Approx. 1.16 g/cm³	Approx. 1.34 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 62 g/l	Approx. 0 g/l	Approx. 58 g/l
Solid content (vol.-%) · calculated *1	Approx. 48 %	Approx. 76 %	Approx. 51 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 1,800 mPas	Approx. 300 mPas	Approx. 1,600 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	GRP as well as sound underlying coatings (e.g. filler, gelcoat, primer); further substrates on request
Surface preparation	The surfaces to be coated must be dry, clean and load-bearing. The substrate must be mechanically sanded; remove all sanding residues completely.
Mixing ratio	10 : 1 by weight 8.5 : 1 by volume
Mixing	Add the hardener completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the adjusting thinner (max. 3 % water) and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 260 g/m ² at 100 µm dry film thickness
Application method	 Roller
Application conditions	 Air temperature from +15 °C  Relative humidity 20–80 % Temperatures above +20 °C accelerate the reaction and curing. At higher temperatures (> 30 °C), Bergolin Retarding Agent 5D9100 may be added to slow down initial drying. The amount of Bergolin Retarding Agent 5D9100 must not exceed the maximum addition of 10 % when mixed with water! It is added, mixed with water, to the base component and must be stirred in carefully.
Pot life ^{*2}	Approx. 2 h
Recoating interval (with itself) ^{*2}	Approx. 1 h
DRYING^{*2}	
Dust-dry (TG 1)	Approx. 2 h (at 100 µm dry film thickness)
Fully dried (TG 7)	Approx. 7 h (at 100 µm dry film thickness)
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.

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