Bergolin 2C Aqua X-Life 6D2000

Series 6D2000 · Water-dilutable, fast-drying 2K PU topcoat with rain/erosion resistance for wind turbine rotor blades

01 PRODUCT DESCRIPTION

Bergolin 2C Aqua X-Life 6D2000 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. Thanks to its low VOC content and low isocyanate content it enables particularly low-emission and occupationally favourable working. It offers outstanding erosion resistance and excellent color stability and produces a very uniform surface. It is particularly suitable for roller and spray application. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Hybrid system
Hardener system	Bergolin Hardener 7D2000
Adjustment thinner	Max. 8 % water
Cleaning thinner	Water, then Superdur Thinner 5D402 (if required)
Characteristics	Waterdilutable · Low VOC · Fastdrying · Erosion resistant · Colorstable · Smooth surface
Color shade	RAL 7035 (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.
Approvals and specifications	Rain erosion test to DNVGL-RP-0171

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *¹	Approx. 1.44 g/cm³	Approx. 1.15 g/cm³	Approx. 1.43 g/cm³
VOC content · IE Directive 2010/75/EU *¹	Approx. 45 g/l	Approx. 0 g/l	Approx. 44 g/l
Solid content (wt.-%) · SDS *¹	Approx. 63 %	Approx. 100 %	Approx. 64 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 850 mPas	Approx. 2,000 mPas	Approx. 55 s (4 mm)

*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	100 : 5 by weight | 16 : 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. 8 % water) and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 151 g/m² at 50 µm dry film thickness
Application method	Roller Spraying
Application conditions	**Air temperature** from +5 °C **Relative humidity** 30–70 % Temperatures above +20 °C accelerate the reaction and curing.
Working time[*2]	Approx. 1 h
Recoating interval (with itself)[*2]	Without intermediate sanding, with itself: min. 1 h
DRYING[*2]	
Dust-dry (TG 1)	Approx. 30 min (at 100 µm wet film thickness)
Fully dried (TG 7)	Approx. 2 h (at 100 µm wet 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
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APPROVED BY
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