Bergopur Aqua Topcoat 6D974-R

Series 6D974-R · Water-thinnable, fast-drying 2K PU topcoat for wind turbine rotor blades

01 PRODUCT DESCRIPTION

Bergopur Aqua Topcoat 6D974-R is a water-thinnable, 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, weather-stable protection of the blade surface. It is particularly suitable for roller application, levels out evenly and is suitable for both OEM production and on-site repair work. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate
Hardener system	Bergolin Hardener 7D867
Adjustment thinner	Max. 10 % water
Cleaning thinner	Water, then Superdur Thinner 5D402 (if required)
Characteristics	Waterthinnable · Fastdrying · Mechanically resistant · Chemical-resistant · Colorstable
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.

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 1.37 g/cm³	Approx. 1.15 g/cm³	Approx. 1.35 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 62 g/l	Approx. 0 g/l	Approx. 57 g/l
Solid content (vol.-%) · calculated *1	Approx. 47 %	Approx. 76 %	Approx. 51 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 1,100 mPas	Approx. 300 mPas / 55 s (4 mm)	Approx. 55 s (4 mm, incl. adjusting thinner)

*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	9 : 1 by weight | 7.6 : 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. 10 % water) and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 130 g/m² at 50 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.
Pot life	Approx. 2 h at +20 °C | approx. 1 h at +30 °C
Working time[*2]	Approx. 1 h
Recoating interval (with itself)[*2]	Without intermediate sanding, with itself: min. 1 h | max. 48 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING[*2]	
Dust-dry (TG 1)	Approx. 1 h (at 100 µm wet film thickness)
Fully dried (TG 7)	Approx. 6 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
20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY
20.08.2026 – Stefan Eisenmenger, Product Management