Superplast Topcoat 6D973

Series 6D973 · Solvent-borne, fast-drying 2K PU topcoat for wind turbine rotor blades

01 PRODUCT DESCRIPTION

Superplast Topcoat 6D973 is a solvent-borne, fast-drying two-component polyurethane topcoat for the rotor blades of wind turbines. 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. Application is carried out by spray or roller; the fast drying enables short cycle times in production and repair. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate
Hardener system	Bergolin PUR Hardener 7D054
Adjustment thinner	Max. 5 %: Superdur Thinner 5D411 (> 20 °C) | Superdur Thinner 5D402 (< 20 °C)
Cleaning thinner	Bergolin Cleaning Agent 5P1100
Characteristics	Fastdrying · Mechanically resistant · Chemicalresistant · Colorstable
Color shade	RAL 7035 (further color shades on request)
Gloss	< 10 GU (60°) · DIN EN ISO 2813
Shelf life	Comp. A: approx. 18 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 *¹	Approx. 1.33 g/cm³	Approx. 1.06 g/cm³	Approx. 1.29 g/cm³
VOC content · IE Directive 2010/75/EU *¹	Approx. 415 g/l	Approx. 265 g/l	Approx. 386 g/l
Solid content (wt.-%) · SDS *¹	Approx. 69 %	Approx. 75 %	Approx. 70 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 750 mPas	Approx. 37 s (4 mm)	Approx. 15 s (6 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	8 : 1 by weight | 6.4 : 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 and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 115 g/m² at 50 µm dry film thickness
Application method	Roller Spraying *For spray application, please coordinate the process with our Technical Service in advance.*
Application conditions	**Air temperature** +10 °C to +35 °C **Relative humidity** < 85 % Temperatures above +20 °C accelerate the reaction and curing.
Pot life[*2]	Approx. 120 min
Working time[*2]	Approx. 60 min
Recoating interval (with itself)[*2]	Without intermediate sanding, with itself: min. 1 h | max. 72 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 slow down drying; higher temperatures 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