

SUPERPLAST HS TOPCOAT 6D990-S

Series 6D990-S · Solvent-borne 2K polyacrylate topcoat with high rain-erosion resistance for rotor blades



01 PRODUCT DESCRIPTION

Superplast HS Topcoat 6D990-S is a solvent-borne two-component polyurethane coating system based on polyacrylate in a high-solid formulation with very good resistance to rain erosion and excellent colour stability for the rotor blades of wind turbines. Its high solid content allows high film thicknesses with a reduced solvent content. As a topcoat it permanently protects the blade surface against erosion and weathering while remaining colour-stable throughout its service life.

02 PRODUCT PROPERTIES

Binder system	Polyacrylate			
Hardener system	Bergolin High Solid Hardener 7D992			
Adjustment thinner	Bergolin Thinner 5D411			
Cleaning thinner	Bergolin Thinner 5D411			
Characteristics	 High solid	 Colour-stable	 UV/weather-resistant	 Rain-erosion resistant
Color shade	RAL 7035 (further shades on request)			
Gloss	Matt			
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	Approx. 1.4 g/cm ³ * ¹	Approx. 1.1 g/cm ³ * ¹	Approx. 1.3 g/cm ³ * ¹
VOC content · IE Directive 2010/75/EU	Approx. 390 g/l * ¹	Approx. 224 g/l	Approx. 361 g/l * ¹
Solid content (wt.-%) · SDS	Approx. 72 % * ¹	Approx. 74 % * ¹	Approx. 73 % * ¹
Viscosity · +20 °C	Approx. 3,000 mPas · ISO 2555	Approx. 18 s (4 mm) · ISO 2431	Approx. 30 s (6 mm) · ISO 2431 * ²

*¹ Depending on colour shade *² including thinner

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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	3 : 1 by weight 2.3 : 1 by volume
Mixing	Add the hardener component completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the thinner and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 250 g/m ² at 120 µm dry film thickness
Application method	 Spraying
Application conditions	 Application temperature +15 °C to +35 °C (above +20 °C accelerated curing)  Relative humidity 20–85 %
Pot life ^{*3}	Approx. 2 h
Working time ^{*3}	Approx. 1 h
Recoating interval (with itself) ^{*3}	Without intermediate sanding, with itself: min. 2 h max. 72 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING^{*3}	
Dust-dry (TG 1)	Approx. 80 min (at 120 µm dry film thickness)
Compatible systems	The product can be combined with numerous other products from the Bergolin wind-power portfolio to form a coordinated coating system. We will be glad to help you determine the suitable system combination – please contact our Technical Service.

^{*3} 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

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APPROVED BY

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