

Steodur PUR Putty 6D979-H

Series 6D979-H · Solvent-free, elastic 2K PUR filler for wind turbine rotor blades



01 PRODUCT DESCRIPTION

Steodur PUR Putty 6D979-H is a solvent-free, elastic and light-fast two-component polyurethane filler for the rotor blades of wind turbines. It levels out surface irregularities and creates a smooth, elastic and light-fast basis for subsequent coating. The working speed can be controlled via the Steodur PUR Accelerator 6D972. The elastic, light-fast formulation is matched to the dynamic loads on rotor blades and can be sanded after a short time; it is equally suitable for manufacturing and repair.

02 PRODUCT PROPERTIES

Binder system	Polyurethane		
Hardener system	Steodur PUR Hardener 7D202 Steodur PUR Hardener 7D202-SW (black)		
Cleaning thinner	Bergolin Cleaning Agent 5P1100		
Characteristics	 Solvent-free	 Elastic	 Light-fast
			 Fastdrying
Color shade	Approx. RAL 7038 (further color shades on request)		
Gloss	Glossy		
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. 1.48 g/cm ³	Approx. 1.12 g/cm ³	Approx. 1.40 g/cm ³
VOC content · IE Directive 2010/75/EU * ¹	Approx. 2 g/l	Approx. 0 g/l	Approx. 1.1 g/l
Solid content (wt.-%) · SDS * ¹	Approx. 99.89 %	Approx. 100 %	Approx. 99.9 %
Rotational viscosity · DIN EN ISO 2555 · +20 °C * ¹	Approx. 160,000 mPas	Approx. 5,500 mPas	Thixotropic

*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. gelcoat, primer); further substrates on request
Surface preparation	The surfaces to be coated must be clean, dry, load-bearing and free from contamination (e.g. oil, grease and dust). Release-agent residues must be removed completely. The substrate must be mechanically sanded. Use suitable abrasive paper with a grit of 80 – 120. After sanding, remove all sanding residues completely.
Mixing ratio	100 : 38 by weight 100 : 50 by volume
Mixing	Pour component B into the container of component A and mix with an electric stirrer for at least 3 min at max. 700 rpm. Transfer to a clean container and mix again thoroughly for approx. 1 min. The black hardener makes mixing errors visible so that they can be avoided. Accelerator addition 0.5–2.5 %.
Theoretical consumption	Approx. 1.40 kg/m ² per 1,000 µm dry film thickness
Sag resistance	4 mm
Application method	 Trowel
Application conditions	 Air temperature +8 °C to +30 °C  Relative humidity < 85 %  Dew point min. 3 °C below object temperature
Pot life ^{*2}	Without accelerator > 8 h; with 1.5 % Steodur PUR Accelerator 6D972 approx. 7 min
Working time ^{*2}	With 1.5 % Steodur PUR Accelerator 6D972 approx. 5 min. At higher temperatures the accelerator quantity can be reduced, but not below 0.5 %.
Recoating interval (with itself) ^{*2}	Min.: as soon as the coating is load-bearing for a further coat Max.: while the coating is still tacky. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING^{*2}	
Sandable	Approx. 70 min (with 1.5 % Steodur PUR Accelerator 6D972); recommended grit 80 – 120
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

18.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

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