

STEODUR PUR FEINSPACHTEL 6D977

Series 6D977 · Solvent-free, elastic 3K PUR fine filler for thin, smooth layers on rotor blades



01 PRODUCT DESCRIPTION

Steodur PUR Feinspachtel 6D977 is a solvent-free, pigmented, elastic and light-fast three-component polyurethane liquid plastic for the rotor blades of wind turbines, specially designed for thin, smooth layers. It serves for fine filling and levelling of surfaces, can be sanded well and worked to a pore-free finish and thus forms a sound, uniform basis for the subsequent coating build-up. The reaction time can be adjusted to the application conditions via the accelerator addition.

02 PRODUCT PROPERTIES

Binder system	Polyurethane		
Hardener system	Steodur-PUR-Härter 7D202 7D202-SW (black)		
Accelerator	Steodur-PUR-Accelerator 6D972		
Cleaning thinner	Superdur Cleaning Agent 5D402		
Characteristics	 Solvent-free	 Pigmented	 Elastic
			 Light-fast
Color shade	RAL 9018 (further 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. 2.25 g/cm ³	Approx. 1.12 g/cm ³	Approx. 1.90 g/cm ³
VOC content · IE Directive 2010/75/EU * ¹	Approx. 27 g/l	Approx. 0 g/l	Approx. 8 g/l
Solid content (wt.-%) · SDS * ¹	Approx. 99 %	Approx. 100 %	Approx. 99 %
Rotational viscosity · DIN EN ISO 2555 · +20 °C * ¹	Approx. 175,000 mPas	Approx. 4,500 mPas	Approx. 25,000 mPas

*¹ Depending on colour 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	5 : 1 by weight 2.5 : 1 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. 2 kg/m ² per 1,000 µm dry film thickness (mixture)
Application method	 Spatula
Application conditions	 Application temperature +8 °C to +30 °C  Relative humidity < 85 %  Dew point Object temperature min. 3 °C above dew point
Pot life ^{*2}	> 8 h (working package 10 kg, without Accelerator)
Working time ^{*2}	Approx. 3 min (500 g mixture with 1.5 % Accelerator 6D972)
Recoating interval (with itself) ^{*2}	Min. as soon as the coating is load-bearing for a further layer max. while the coating is still tacky
DRYING^{*2}	
Sandable	Approx. 60 min (with 1.5 % Accelerator 6D972); recommended grit 80–120
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.

^{*2} Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.

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.

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**MODIFIED BY**

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APPROVED BY

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