STEODUR PUR-SPACHTEL 6D976

Series 6D976 · Solvent-free, elastic 3K PUR filler for the rotor blades of wind turbines

01 PRODUCT DESCRIPTION

Steodur PUR-Spachtel 6D976 is a solvent-free, pigmented, elastic and light-fast three-component polyurethane liquid plastic (filler compound) for the rotor blades of wind turbines. It serves to fill and level 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 7038 (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/cm³	Approx. 1.12 g/cm³	Approx. 1.90 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 29 g/l	Approx. 0 g/l	Approx. 21 g/l
Solid content (wt.-%) · SDS *1	Approx. 99 %	Approx. 100 %	Approx. 99 %
Viscosity · DIN EN ISO 2555 · +20 °C *1	Approx. 235,000 mPas	Approx. 4,500 mPas	Approx. 30,000 mPas

*1 *Depending on colour shade*

STEODUR PUR-SPACHTEL 6D976

Series 6D976 · Solvent-free, elastic 3K PUR filler for the rotor blades of wind turbines

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/m² 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.

STEODUR PUR-SPACHTEL 6D976

Series 6D976 · Solvent-free, elastic 3K PUR filler for the rotor blades of wind turbines

MODIFIED BY

04.09.2026 – Martin Krull, Head of Laboratory

APPROVED BY

04.09.2026 – Stefan Eisenmenger, Product Management