Steodur-PUR-Putty 4D980, RAL color

Series 4D980 · Solvent-free 3K PUR putty for wind turbine rotor blades

01 PRODUCT DESCRIPTION

Steodur-PUR-Putty 4D980, RAL color is a solvent-free, pigmented, elastic and light-fast three-component polyurethane liquid plastic (putty) for wind turbine rotor blades. It is used to fill and level surfaces, can be sanded after a short time and, thanks to its elasticity and light-fastness, retains its properties permanently. Curing is controlled by a separate Accelerator whose dosage adapts the working and sanding time to the ambient temperature. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Steodur PUR Hardener 7D202 | Steodur PUR Hardener 7D202-SW (black)
Accelerator	Steodur PUR Accelerator 6D972
Cleaning thinner	Superdur Thinner 5D402
Characteristics	Solvent-free · Elastic · Light-fast · Fastdrying · Easy application · High sag resistance
Color shade	RAL 7035 (further color shades on request); RAL shade only achieved with Steodur PUR Hardener 7D202
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. 1.60 g/cm³	Approx. 1.12 g/cm³	Approx. 1.5 g/cm³
VOC content · IE Directive 2010/75/EU *¹	Approx. 16 g/l	0 g/l	Approx. 12 g/l
Solid content (wt.-%) · SDS *¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Viscosity · DIN EN ISO 2555 · +20 °C *¹	Thixotropic	Approx. 4,500 mPas	Approx. 38,000 mPas

*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	4 : 1 by weight | 2.8 : 1 by volume Accelerator 6D972: 1.5 % per 500 g mix (reduce to min. 0.5 % at higher temperatures, increase to max. 2.5 % at lower temperatures)
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. 1.5 kg/m² at 1,000 µm dry film thickness (mixture)
Sag resistance	6 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]	> 8 h (without Accelerator)
Working time[*2]	Approx. 3 min (500 g mix with 1.5 % Accelerator 6D972)
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. 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-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
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