Steodur PUR Gelcoat 6D970-3, colorless

Series 6D970-3 · Transparent, elastic, solvent-free 2K PUR gelcoat for wind turbine rotor blades

01 PRODUCT DESCRIPTION

Steodur PUR Gelcoat 6D970-3 is a transparent, elastic, solvent-free and light-fast two-component polyurethane liquid plastic (gelcoat) for the rotor blades of wind turbines. It is applied as a surface-forming gelcoat layer in the mould process and subsequently laminated over; the solvent-free, light-fast adjustment ensures a true-to-mould blade surface. Integrated UV absorbers permit temporary outdoor storage of still uncoated rotor blades without UV light damaging the substrate. Thanks to its very good sandability it is easy to rework and provides a pore-free basis for subsequent coatings. 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)
Cleaning thinner	Superdur Thinner 5D402
Characteristics	Transparent · Elastic · Solvent-free · Light-fast
Color shade	Colorless
Gloss	Depends on mould
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. 1.08 g/cm³	Approx. 1.12 g/cm³	Approx. 1.11 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 0.3 g/l	Approx. 0 g/l	Approx. 0.2 g/l
Solid content (wt.-%) · SDS	Approx. 100 %	Approx. 100 %	Approx. 100 %
Rotational viscosity · DIN EN ISO 2555 · +20 °C	Approx. 10,000 mPas	Approx. 5,000 mPas	Approx. 7,000 mPas

03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	GRP (further substrates on request)
Surface preparation	A suitable release agent must be applied to the mould surface.
Mixing ratio	100 : 65 by weight | 100 : 64 by volume

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Mixing	Add the hardener completely to the base component and mix intensively with an electric stirrer. Then transfer to a clean container and mix intensively again. Alternatively, application via a suitable 2K dosing unit. Before starting, the unit should be volumetrically calibrated (litre check) and any deviations in the mixing ratio corrected. Maximum permissible deviation ± 3 %. The black hardener makes mixing errors visible so that they can be avoided.
Theoretical consumption	Approx. 0.330 kg/m² per 300 µm film thickness
Application method	Roller
Application conditions	**Surface temperature** +40 °C to +50 °C **Relative humidity** < 80 %
Pot life[*2]	Approx. 30 min
Working time[*2]	Approx. 5 min (at +40 °C surface temperature)
DRYING	
Ready for lamination / lay-up	Approx. 35 min (+50 °C) | approx. 40 min (+45 °C) | approx. 45 min (+40 °C) surface temperature
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.*

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
24.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY
24.08.2026 – Stefan Eisenmenger, Product Management