Bergolin Putty 4D9700-HighTemp

Series 4D9700-HighTemp · Solvent-free, pigmented 2K PUR filler for wind turbine rotor blades (high-temperature grade)

01 PRODUCT DESCRIPTION

Bergolin Putty 4D9700-HighTemp is a solvent-free, pigmented, elastic and light-fast two-component polyurethane filler (liquid plastic) developed specifically for the rotor blades of wind turbines. It levels out surface irregularities and creates a smooth, elastic and light-fast basis for subsequent coating. Its formulation is designed for application and curing at higher temperatures, providing a sufficiently long working time even at temperatures up to +45 °C while still achieving short sanding times. Thanks to its solvent-free formulation, low-emission working is possible; application is carried out conveniently via a 2K cartridge with a static mixer. The elastic adjustment is matched to the dynamic loads on rotor blades and is equally suitable for manufacturing and repair. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D9700
Cleaning thinner	Bergolin Cleaning Agent 5P1100
Characteristics	Solvent-free · Fastdrying · Elastic · Light-fast · High-temperature application
Color shade	Approx. RAL 7038 (further color shades on request)
Gloss	Glossy
Shelf life	Approx. 18 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. 1.57 g/cm³	Approx. 1.14 g/cm³	Approx. 1.46 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 0.9 g/l	Approx. 0 g/l	Approx. 0.6 g/l
Solid content (wt.-%) · SDS *1	Approx. 100 %	Approx. 100 %	Approx. 100 %
Rotational viscosity · DIN EN ISO 2555 · +20 °C *1	Approx. 350,000 mPas	Approx. 14,000 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 : 36.3 by weight | 2 : 1 by volume
Mixing	Application with a suitable 2K cartridge and static mixer.
Theoretical consumption	Approx. 1.46 kg/m² at 1,000 µm dry film thickness (mixture)
Sag resistance	4 mm
Application method	Trowel
Application conditions	**Application temperature** +25 °C to +45 °C **Relative humidity** < 90 %
Working time	Approx. 4 min at +25 °C | approx. 2.5 min at +35 °C | approx. 1.5 min at +45 °C
Recoating interval	Without intermediate sanding, with itself: at +25 °C min. 10 min, max. 60 min | at +45 °C min. 5 min, max. 45 min
DRYING[*2]	
Sandable	Approx. 50 min at +25 °C | approx. 30 min at +35 °C | approx. 15 min at +45 °C; 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

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management