

Bergolin LEP 6D1100-1

Series 6D1100-1 · Pigmented, solvent-free 2K PUR leading-edge protection (LEP) for wind turbine rotor blades



01 PRODUCT DESCRIPTION

Bergolin LEP 6D1100-1 is a pigmented, solvent-free and light-fast two-component polyurethane liquid plastic used as erosion protection (leading edge protection) for the rotor blades of wind turbines. The system is 100 % solvent-free and designed for single-coat application at high dry film thickness, so that the required erosion protection can be built up in a single pass. It can be applied by roller, brush or trowel, is repairable and therefore also suitable for repairing service and transport damage. The product offers very good mechanical and chemical resistance, is weather-stable and requires no additional topcoat. It forms an elastic, abrasion- and weather-resistant protective layer on the erosion-exposed leading edges, provides outstanding erosion protection and thereby extends the service life of the rotor blades. The product is approved by various OEMs.

02 PRODUCT PROPERTIES

Binder system	Polyurethane		
Hardener system	Bergodur Hardener 7D810		
Cleaning thinner	Bergolin Cleaning Agent 5P1100		
Characteristics	 Solvent-free	 Erosion protection	 Chemical resistant
	 Weatherstable	 Repairable	 Single-coat
Color shade	RAL 7035, 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.		
Approvals and specifications	Rain erosion test to DNVGL-RP-0171		

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C * ¹	Approx. 1.40 g/cm ³	Approx. 1.15 g/cm ³	Approx. 1.31 g/cm ³
VOC content · IE Directive 2010/75/EU * ¹	Approx. 2.4 g/l	Approx. 0 g/l	Approx. 1.6 g/l
Solid content (wt.-%) · SDS * ¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Rotational viscosity · DIN EN ISO 2555 · +20 °C * ¹	Approx. 26,000 mPas	Approx. 1,000 mPas	Approx. 9,400 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. filler, 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 : 41 by weight 100 : 50 by volume
Mixing	Application via 2K dosing unit or 2K cartridge, each with a static mixer. Before starting, the unit should be volumetrically calibrated (litre check) and any deviations in the mixing ratio corrected. Maximum permissible deviation $\pm 3 \%$.
Theoretical consumption	Approx. 1.31 kg/m ² per 1,000 µm dry film thickness
Film thickness	Single-coat build-up; 400–600 µm total dry film thickness to achieve a sufficient wear layer.
Application method	 Roller  Brush  Trowel
Application conditions	 Air temperature +5 °C to +40 °C  Relative humidity 20–80 %  Dew point min. 3 °C below object temperature
Pot life ^{*2}	Approx. 19 min
Working time ^{*2}	Approx. 7 min
Recoating interval (with itself) ^{*2}	Rolling, brushing and trowelling: max. 24 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING^{*2}	
Sandable	Approx. 2 h; 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