

Technical data sheet

Bergolin LEP 6D1100

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1. Product description

Bergolin LEP 6D1100 is a pigmented, solvent-free, lightfast 2-component liquid plastic that is used in particular as protection against erosion for rotor blades in wind turbines.

2. General information

Manufacturer	Bergolin GmbH & Co. KG Sachsenring 1 27711 Osterholz-Scharmbeck	Contact	Tel. +49 4795 / 95899-0 Fax: +49 4795 / 95899-290 E-mail: info@bergolin.de Web: www.bergolin.de
Product	Bergolin LEP 6D1100, Color	Series	6D1100
Approvals and specifications	N/A		

3. Product features

Binder system	Polyurethane
Hardener	Bergolin Hardener 7D810
Thinner	N/A
Cleaning thinner	5P1100
Characteristics	Pigmented Solvent-free Lightfast
Color	RAL 7035, RAL 7038 Other colors on request
Gloss	Glossy
Shelf life	Component A 12 months / component B 12 months In the closed original container at temperatures from +4°C to +40°C. Deviating from this, only the 2 component cartridges have a shelf life of 18 months at temperatures of +4°C to +40°C. Protect from frost and moisture!

Modified by: Krull, Martin

Released by: Krull, Martin

Date: 11.07.2025

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	A Component	B Component	Mixture
Density DIN EN ISO 2811-1/+20°C	Approx. 1.47 g/cm ³	Approx. 1.15 g/cm ³	Approx. 1.38 g/cm ³
VOC content IE Directive 2010/75 / EU	Approx. 1 g/l	Approx. 0 g/l	Approx. 0,3 g/l
Solid body weight percentage: acc. MSDS	Approx. 100 %	Approx. 100 %	About 100%
Viscosity DIN EN ISO 2555/ +20°C	Approx. 10.500 mPas	Approx. 1.000 mPas	Approx. 6.000 mPas

4. Processing

The following information can vary depending on the application. Please get in touch with your direct contact person for more detailed information.

Substrate	GRP, Other substrates on request		
Substrate pretreatment	Sand down mechanically; the surface must be dry and clean before application.		
Mixing ratio	100:39 by weight / 100:50 by volume		
Mixing	2-component system with static mixer 2-component airless system 2-chamber cartridge with static mixer		
Theoretical consumption	Approx. 1,38 kg/m ² per mm layer thickness		
Application type		Rollen	A multi-layer structure with a total dry film thickness of at least 400 µm is necessary to obtain a sufficient wear layer.
		Brush	
		Spraying	50°C - 60°C material temperature. The max. material temperature must not be exceeded under any circumstances! A total dry film thickness of 400-600 µm is necessary to obtain a sufficient wear layer.
		Casting process	
Processing conditions	+5°C to +35°C / 20 to 80% rel. Humidity The dewpoint must be 3°C below the object temperature.		
Pot life*¹ +20°C, 50% rel. RH	Approx. 15 min. in Gel-timer		
Processing time*¹ +20°C, 55% rel. RH	Approx. 7 min.		
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Overcoating time * ¹	Casting, roller, brush: max. 24 h at 25°C, 64% RH Spraying: 4 h at 55° material temp., 22° RT and 38 RH
Drying time * ¹ +20°C, 55% rel. RH	Drying stage 1: approx. 40 min Drying stage 7: approx. 4h Ready for sanding after 2 h

*¹ Both lower temperatures and lower humidity slow down drying. Higher temperatures and higher air humidity accelerate drying.

5. Note

With this product data sheet, all previously published product data sheets lose their validity. Based on our experience, our product data sheets provide information to the best of our knowledge and serve the user's technical support. The information contained herein is based on experience under standard conditions and assuming proper storage and processing of the product. Substrates, materials, and working conditions may differ. Therefore, neither a guarantee of the results of work nor liability can be justified on whatever legal grounds on the basis of the information contained in this document or on the basis of a verbal consultation. Our technical product leaflets cannot and should not represent any guarantee of characteristics in the legal sense. Furthermore, our product data sheets do not constitute a contractual legal relationship and do not represent the contractually agreed quality of our products. A guarantee of certain properties/quality characteristics or the suitability of the product for a specific application cannot be derived from our information. The information contained herein is not binding and we assume no liability for its completeness, correctness or accuracy. This exclusion of liability does not apply to claims under the Product Liability Act, claims due to malicious, intentional or grossly negligent behavior of the contractual partners, claims arising from liability for guaranteed characteristics of the quality as well as damages from injury to life, body or health. Our general terms and conditions for sales and delivery also apply.

Our products are made exclusively for the professional industrial user who has appropriate expertise in handling and using chemical/technical surface finish products. In individual cases, the application and processing of our products requires individual coordination of the coating structure or the working process due to the differing surfaces and occurring stresses. The purchaser is responsible for the examination of the product for the intended application. Preliminary tests are recommended. When applying our products, the relevant statutory regulations (in particular regulations governing hazardous substances), leaflets issued by the German Trade Association for Raw Materials and Chemical Industry (BG RCI) and the accident prevention regulations of the relevant professional association must be observed. Further details can be found in the respective safety data sheets. Processing should only be carried out under consideration of current safety regulations in the relevant country/state. We reserve the right to adapt the content of our product data sheets without prior notice to the state of the art and to supplement, update or change without prior notice and without obligation.

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