

Technical data sheet

ID	4858
Stand	005/09.2024
Page	1 of 3

Superplast Topcoat 6D973

1. Product description

Superplast Topcoat 6D973 is a solvent-based, 2-component polyurethane coating system for rotor blades of wind turbines. It has very good resistance to mechanical and chemical stress and excellent color stability. For spraying or roller coating application, fast drying.

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	Superplast Topcoat 6D973	Series	6D973
Approvals and specifications	N/A		

3. Product features

Binder system	Polyacrylate		
Hardener	Bergolin PUR- Hardener 7D054		
Thinner	Max. 5% 5D411 for temperatures > 20°C 5D402 for temperatures < 20°C		
Cleaning thinner	5P1100		
Characteristics	Solvent based Very good resistance to mechanical and chemical stress Excellent color stability Fast drying		
Color	RAL 7035 Other colors on request		
Gloss	< 10 GU / 60° angle DIN 67530		
Shelf life	Component A 18 months / Component B 12 months In the closed original container at temperatures from +4°C to +40°C. Protect from frost and moisture!		
	A Component	B Component	Mixture
Density DIN EN ISO 2811-1/+20°C	Approx. 1.33 g/cm ³ *1	Approx. 1.06 g/cm ³	Approx. 1.29 g/cm ³ *1
VOC content IE Directive 2010/75 / EU	Approx. 415 g/l *1	Approx. 265 g/l	Approx. 386 g/l *1
Solid body weight percentage:	Approx. 69 % *1	Approx. 75 %	Approx. 70 % *1
Modified by: Hohnholz, Dieter		Released by: Hohnholz, Dieter	
Date: 02.09.2024		Date: 02.09.2024	

Technical data sheet	ID	4858
	Stand	005/09.2024
Superplast Topcoat 6D973	Page	2 of 3

Acc. MSDS			
Viscosity +20°C	Approx. 750 mPas DIN EN ISO 2555	Approx. 37 sec. DIN 4 mm flow cup	Approx. 15 sec. * ² DIN 6 mm flow cup

*¹ depending on color; *² including adjustment dilution.

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 the surface mechanically; the surface must be dry and clean before application.		
Mixing ratio	8:1 by weight 7.6:1 by volume* ¹		
Mixing	Completely add the hardener component to the base component and stir intensively with an electric stirrer (approx. 1 minutes). Then add the thinner and stir again intensively for approx. 1 minute.		
Theoretical use	approx. 115 g/m ² at 50 µm dry layer thickness* ¹		
Application type		Rolling	
		Spraying	
Processing conditions	+10°C to +35°C / < 85% rel. Humidity Temperatures above +20°C accelerate the reaction and hardening process.		
Pot life* ² +20°C	Approx. 120 minutes		
Processing time* ² +20°C	Approx. 60 minutes		
Overcoating time * ² +20°C	With itself min. 1 h / max. 72 h After that mechanical sanding is necessary		
Drying time* ² +20°C	Drying stage 1: approx. 1 h at 100 µm wet film thickness Drying stage 7: approx. 6 h at 100 µm wet film thickness		

*¹ depending on color; *² Lower temperatures slow drying. Higher temperatures 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

Modified by: Hohnholz, Dieter	Released by: Hohnholz, Dieter
Date: 02.09.2024	Date: 02.09.2024

Technical data sheet

ID	4858
Stand	005/09.2024
Page	3 of 3

Superplast Topcoat 6D973

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.

Modified by: Hohnholz, Dieter	Released by: Hohnholz, Dieter
Date: 02.09.2024	Date: 02.09.2024