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1. Product description

BergoLED Speed-Resin 1L1000 is a solvent free, one component laminating resin. Dries within seconds through the use of a suitable LED UV lamp with a wavelength of 395nm and can be overcoated immediately. The resin is treated with a UV protection additive which allow for a working time of up to five minutes in direct sunlight.

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	BergoLED Speed-Resin 1L1000-O, Outdoor	Series	1L1000
Specifications referring to	Class program – DNVGL-CP-0089		

3. Product features

Binder system	Polyurethane acrylate
Cleaning thinner	5P043
Characteristics	Solvent free Dries within seconds Directly overcoat able Good mechanical and chemical resistance Excellent adhesive strength Highly resistant to yellowing
Color	Red glaze
Shelf life	12 months In the closed original container at temperatures from +4°C to +40°C. Protect from frost and moisture!

Test	Testing standard	Result
Glass transition temperature	DIN EN ISO 11357-2:2020-08	97,5 °C
Heat Deflection Temperature (HDT)	DIN EN ISO 75-2	73,51 °C
Volumetric shrinkage after drying	DIN EN ISO 3521	8,19 %
Tensile strength	DIN EN ISO 527-2, Type 1A	69,17 MPa
Tensile modulus of elasticity	DIN EN ISO 527-2, Type 1A	3.180 MPa
Tensile Elongation at break	DIN EN ISO 527-2, Type 1A	4,15 %
Tensile strength	DIN EN ISO 527-2, Type 1B	69,24 MPa
Tensile modulus of elasticity	DIN EN ISO 527-2, Type 1B	3.152 MPa

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Tensile Elongation at break	DIN EN ISO 527-2, Type 1B	3,94 %
Flexural strength	DIN EN ISO 178	112,8 MPa
Flexural modulus of elasticity	DIN EN ISO 178	2.917 MPa
Flexural Elongation at break	DIN EN ISO 178	5,38 %
Water Uptake	DIN EN ISO 62	0,17 % (1d) / 0,46 % (7d)
A Component		
Density DIN EN ISO 2811-1/+20°C	Approx. 1.1040 g/cm ³	
Density DIN EN ISO 1183-1, A	1,1940 g/cm ³	
VOC content IE Directive 2010/75 / EU	Approx. 0 g/l	
Solid body weight percentage: acc. MSDS	Approx. 100 %	
Shore-D Hardness DIN EN ISO 868	88	
Viscosity DIN EN ISO 2555/ +20°C	Approx. 1.000 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 surface mechanically; the surface must be dry and clean before application.		
Application type	 Rolling	 Brushing	
Processing conditions	No limitations in terms of ambient temperature or relative humidity. The material must be protected from sources of LED radiation. Processing in direct sunlight should be completed within 5 minutes.		
Wavelength for LED	395nm		
Pot life	N/A		
Processing time	Unlimited		
Overcoating time	The material can be overcoated with itself without intermediate sanding.		
Drying time	Material should be dried under peel ply. Sand able after exposure to light, when the red color has completely disappeared.		

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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 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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