BERGOLED SPEED-REPAIR PUTTY 4L1000

Series 4L1000 · Solvent-free, LED-UV-curing 1K putty with curing indicator for the repair of CFRP, GRP, steel and ABS components

01 PRODUCT DESCRIPTION

BergoLED Speed-Repair Putty 4L1000, colourless is a solvent-free, single-component, LED-UV radiation-curing putty for the fast and reliable repair of CFRP and GRP components as well as steel and ABS substrates. It is applied to the area to be repaired and cured within seconds using a suitable LED-UV lamp (wavelength 395 nm); immediately afterwards it can be sanded and reworked, enabling very short cycle times and efficient repair workflows. Until deliberate curing under the LED-UV lamp, the material remains workable for any length of time. An integrated glazing-red colour indicator shows the curing progress: it disappears on full curing, leaving a colourless or transparent cured film. The product achieves excellent adhesion on epoxy- and polyester-infused CFRP and GRP materials, offers good mechanical and chemical resistance and is very easy to sand.

02 PRODUCT PROPERTIES

Binder system	Polyurethane acrylate
Cleaning thinner	Bergopur Thinner 5P043
Characteristics	Solventfree · Cures in seconds · Directly reworkable · Excellent adhesion · Chemically resistant
Color shade	Colourless (glazing red when applied, as UV curing indicator)
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost, moisture and UV as well as direct light exposure (sunlight).

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C	Approx. 1.09 g/cm³	–	–
VOC content · IE Directive 2010/75/EU	Approx. 2.1 g/l	–	–
Solid content (wt.-%) · SDS	Approx. 99.94 %	–	–
Viscosity · DIN EN ISO 2555 · +20 °C	Thixotropic	–	–

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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	CFRP / GRP / steel / ABS (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. After sanding, remove all sanding residues completely.
Theoretical consumption	Approx. 1.09 kg/m² per 1000 µm dry film thickness
Application method	Putty knife
Application conditions	**Ambient conditions** No restrictions regarding temperature and humidity; the substrate must be dry. Protect the material from LED radiation and direct light exposure (sunlight), otherwise the reaction may start.
Pot life	None
Working time	Unlimited, as long as the product is not exposed to UV radiation, the low-VIS spectrum or sunlight.
Recoating interval (with itself)	Can be overcoated with itself without intermediate sanding; intermediate sanding improves adhesion.
CURING	
Curing / curing time	Cures within seconds with an LED-UV lamp (395 nm) (depending on size and thickness of the repair). The surface can be sanded as soon as the initially glazing-red colour indicator has completely disappeared. To avoid a tacky surface (oxygen inhibition), cure under peel ply or clear release film; otherwise remove the tacky surface by sanding (thick layers) or cleaning with isopropanol (thin layers).

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

25.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

25.08.2026 – Stefan Eisenmenger, Product Management