BERGOLIN GELCOAT 2D3820

Series 2D3820 · Solvent-borne 2K PU gelcoat (clearcoat) with matt soft-feel effect for visible-carbon components (CFRP/GRP)

01 PRODUCT DESCRIPTION

Bergolin Gelcoat 2D3820, colorless is a high-quality, solvent-borne, styrene-free two-component polyurethane gelcoat (clearcoat) with a matt soft-feel effect for the surface finishing of high-quality visible-carbon components made of CFRP and GRP. The material can be applied both as a gelcoat in the mould process (applied into the mould before laminating) and as a clearcoat directly onto the finished component, and is suitable for epoxy, polyester and vinyl ester resin systems. It forms a matt surface with a pleasant, velvety touch (soft-feel), brings out the fibre structure and offers high UV stability as well as very good weather, mechanical and chemical resistance. It also features high bonding strength without an adhesion promoter and very good grindability and polishability. Typical fields of application are matt visible-carbon surfaces (e.g. vehicle interiors, bodywork, spoilers, door sills) as well as sports and leisure equipment.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D3810
Adjustment thinner	Superdur Thinner 5D402
Cleaning thinner	Superdur Thinner 5D402
Characteristics	Transparent · Matt / soft-feel · UV & weather resistant · Chemically resistant · Excellent adhesion
Color shade	Colorless
Gloss	Matt
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C	Approx. 1.00–1.15 g/cm³	Approx. 1.05–1.10 g/cm³	Approx. 1.00–1.06 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 406 g/l	Approx. 220 g/l	Approx. 369 g/l
Solid content (wt.-%) · SDS	Approx. 60.5 %	Approx. 75 %	Approx. 63 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Thixotropic	Approx. 160–180 s (4 mm)	Approx. 50–60 s (6 mm)

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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 (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 x–x. After sanding, remove all sanding residues completely.
Mixing ratio	2 : 1 by weight | 2 : 1 by volume
Mixing	Add the hardener component completely to the base component and mix intensively for approx. 1 min.
Theoretical consumption	Approx. 80 g/m² at 40 µm dry film thickness (substrate-dependent)
Application method	Gravity cup gun

SPRAY CONDITIONS

Parameter	Gravity cup gun
Recommended atomizing pressure	4–5 bar
Recommended spray nozzle	1.5–1.6 mm

Application conditions	**Application temperature** ≥ +15 °C (above +20 °C accelerated curing) **Relative humidity** 20–80 %
Pot life[*1]	Approx. 1 h

DRYING[*1]

Tack-free	Approx. 12 h
Handleable	Approx. 20 h
Fully cured	Approx. 10 days
Forced drying	Approx. 1 h at +120 °C

[*1] *Values are based on laboratory measurements at +20 °C and 30 % relative humidity. Lower temperatures slow down drying; higher temperatures accelerate it. For optimum adhesion between gelcoat and resin we recommend tempering the component directly after resin infusion; please coordinate the tempering parameters with Bergolin Technical Service.*

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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

25.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

25.08.2026 – Stefan Eisenmenger, Product Management