

BERGOLIN 2C AQUA CLEAR COAT 2D4200

Series 2D4200 · Water-thinnable, low-VOC, matt 2K PU clear coat with anti-slip/grip finish for visible-carbon components (CFRP/GRP)



01 PRODUCT DESCRIPTION

Bergolin 2C Aqua Clear Coat 2D4200, colorless is a matt, water-thinnable and low-VOC two-component polyurethane clear coat with an anti-slip finish for the coating of high-quality visible-carbon components made of CFRP and GRP. The coating cures to a grippy, matt surface with a unique touch that ensures a firm, secure grip. It dries quickly, can be recoated directly and brings out the fibre structure. As a water-thinnable, low-solvent system, the product enables low-emission working. Typical fields of application are grippy, matt visible-carbon surfaces on sports and leisure equipment as well as wherever a slip-resistant, grip-secure and at the same time matt surface is required.

02 PRODUCT PROPERTIES

Binder system	Polyurethane (water-thinnable)
Hardener system	Bergolin Hardener 7D4200
Adjustment thinner	15–20 % water
Cleaning thinner	Water, then Superdur Thinner 5D402
Characteristics	 Waterthinnable  Anti-slip grip  Fast drying  Directly recoatable  Low VOC
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. 0.90 g/cm ³	Approx. 1.10 g/cm ³	Approx. 1.09 g/cm ³
VOC content · IE Directive 2010/75/EU	See SDS	See SDS	See SDS
Solid content (wt.-%) · SDS	Approx. 63 %	Approx. 96 %	Approx. 66 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 90 s (4 mm)	Approx. 2500 mPas	Approx. 30 s (4 mm, incl. 15 % water)

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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	100 : 10 by weight
Mixing	Add the hardener component completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the thinner (water) and mix intensively again for approx. 1 min.
Theoretical consumption	Approx. 70 g/m ² for a dry film thickness of 50 µm (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 +5 °C to +25 °C (above +20 °C accelerated curing)  Relative humidity Approx. 50 %; dew point 3 °C below object temperature
Pot life ^{*1}	Approx. 8 h
Working time ^{*1}	> 6 h
Recoating interval (with itself) ^{*1}	Immediately up to max. 72 h

DRYING^{*1}

Dust-dry (TG 1)	Approx. 1 h
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^{*1} Values refer to +20 °C and 50 % relative humidity; deviating ambient conditions may lengthen or shorten the stated times.

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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