

Bergolin 2C Aero Clean Topcoat 2D6500, colorless

Series 2D6500 · Solvent-borne, polishable and sandable 2K PU clear coat, superhydrophobic and ice-repellent



01 PRODUCT DESCRIPTION

Bergolin 2C Aero Clean Topcoat 2D6500 is a solvent-borne, polishable and sandable two-component polyurethane clear coat for coating various substrates. It offers excellent weathering and UV resistance and provides lasting protection against chalking and yellowing. After curing, the film forms a superhydrophobic, micro-structured surface with very low surface energy: water beads off in almost spherical droplets, carrying away dust and dirt particles (self-cleaning effect). Dust, soot and other deposits find little hold on the smooth, low-energy surface and are largely washed off by rain; stubborn residues can be removed with considerably less effort. The surface therefore stays clean for longer, cleaning intervals are extended and aerodynamic efficiency is maintained. Its strongly water-repellent adjustment also delays ice formation on exposed areas and makes ice easier to shed. Combined with good adhesion to metallic substrates and existing coatings as well as very good mechanical and chemical resistance, it is a durable, dirt- and ice-repellent top layer for demanding exterior applications.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D6500
Adjustment thinner	Approx. 5 % Superdur Thinner 5D402
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Superhydrophobic  Antidirt  Anti-ice  Weatherstable  Mechanically resistant  Chemicalresistant  Good adhesion
Color shade	Colorless
Gloss	Glossy
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. 1.05–1.15 g/cm³	Approx. 1.05–1.15 g/cm³	Approx. 1.05–1.15 g/cm³
VOC content · IE Directive 2010/75/EU	Approx. 498 g/l	Approx. 110 g/l	Approx. 400 g/l
Solid content (wt.-%) · SDS	Approx. 51 %	Approx. 90 %	Approx. 61 %
Viscosity · ISO 2431 · +20 °C	Approx. 40–60 s (4 mm)	Approx. 115–150 s (4 mm)	Approx. 50–75 s (4 mm)

03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

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Substrate	Sound underlying coatings or paint systems (applied as a finishing sealer); further substrates on request
Surface preparation	The substrate must be mechanically sanded; before application it must be dry and clean.
Mixing ratio	3 : 1 by weight 2.5 : 1 by volume
Mixing	Add the hardener completely to the base component and mix intensively with an electric stirrer for approx. 1 min. Then add the adjusting thinner (approx. 5 %) and mix again for approx. 1 min.
Theoretical consumption	Approx. 90 g/m ² at 40 µm dry film thickness (substrate-dependent)
Application method	 Spraying <i>Cup gun: pressure 4–5 bar, nozzle 1.5–1.6 mm.</i>
Application conditions	 Air temperature from +15 °C  Relative humidity 20–80 % Temperatures above +20 °C accelerate the reaction and curing.
Pot life ^{*2}	Approx. 50 min
DRYING^{*2}	
Tack-free	Approx. 1.5 h
Handling-dry	Approx. 3.5 h
Fully cured	Approx. 7 d (or approx. 0.5 h at 80 °C, heat-forced)
Compatible systems	The product can be combined with numerous other products from the Bergolin wind-energy portfolio to form a coordinated coating system. We will be glad to help you determine the suitable system combination – please contact our Technical Service.
^{*2} Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.	

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

18.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

18.08.2026 – Stefan Eisenmenger, Product Management