

Bergolin 2C FlexSeal 6D4500

Series 6D4500 · Highly flexible, solvent-free 2K PU filler for mineral and metallic substrates



01 PRODUCT DESCRIPTION

Bergolin 2C FlexSeal 6D4500 is a highly flexible, solvent-free 2-component polyurethane filler designed for a wide range of applications on both mineral and metallic substrates. The material features crack-bridging properties and provides a durable, resilient and well-adhering surface, making it ideal for levelling and protecting stressed areas. Its fast-curing, solvent-free formulation allows for efficient processing and use in emission-sensitive environments. FlexSeal is suitable for both interior and exterior applications, offering reliable performance even under challenging conditions.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin Hardener 7D4500
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Solventfree  Fastdrying  Crackbridging  High tensile strength  High hiding power  UVstable
Color shade	RAL 7035 (other colors on request)
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 *1	Approx. 1.50 g/cm ³	Approx. 1.14 g/cm ³	Approx. 1.40 g/cm ³
VOC content · IE Directive 2010/75/EU *1	Approx. 0 g/l	Approx. 0 g/l	Approx. 0 g/l
Solid content (wt.-%) · SDS *1	Approx. 100 %	Approx. 100 %	Approx. 100 %
Viscosity · DIN EN ISO 2555 · +20 °C *1	Approx. 8,400 mPas	Approx. 1,700 mPas	Approx. 1,800 mPas

*1 Depending on color shade

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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	Steel, stainless steel, concrete/screed (other substrates on request)
Surface preparation	Before application, sufficient load-bearing capacity must be ensured. Steel: Preparation according to EN ISO 12944-4; free of welding beads, pores, overlaps, ridges, fats, oils and dirt. Blasting to Sa 2½, average surface roughness Rz approx. 50–70 µm. Optional base coat: 1 × 30 µm Tenaxon T 569, consumption approx. 100 g/m² at 30 µm DFT. Stainless steel: The substrate must be dry and free of scale, lubricants, dust, dirt, grease, oil and other contaminants; lightly sand and thoroughly clean. Base coat: thin, translucent coat of Bergolin 2K PUR adhesion promoter, consumption approx. 35 g/m² at 10 µm DFT. Concrete/screed: Surface must be solid, clean and free from fats, oils, wax, sand, dust, standing water and other adhesion-inhibiting substances. Optional primer: Steopox 220, consumption approx. 300–500 g/m² depending on absorbency; if required, broadcast with kiln-dried quartz sand 0.1–0.3 mm.
Mixing ratio	100 : 38 by weight 100 : 50 by volume
Mixing	Stir up both components separately until homogeneous. Add the hardener (B) completely to the base component (A) and mix with an electric stirrer for at least 1 min at max. 700 rpm. Then transfer to a clean container and stir for approx. 1 min more.
Theoretical consumption	Approx. 140 g/m² at 100 µm dry film thickness
Application method	 Trowel
Application conditions	 Air temperature +5 °C to +35 °C  Relative humidity 20–85 %  Dew point min. 3 °C below object temperature
Pot life ^{*2}	Approx. 5 min
Recoating interval (with itself) ^{*2}	Without intermediate sanding, with itself: min. 30 min max. 168 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding) is required.
DRYING^{*2}	
Dust-dry (TG 1)	Approx. 20 min
Fully dried (TG 7)	Approx. 1 h
Fully loadable (mech. & chem.)	After complete curing (approx. 7 days)
Compatible systems	Primer: Tenaxon T 569 (3E569) Primer: Steopox 220 (2E220) Further applications on request.

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¹² 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

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management