

Bergolin 2C SmartRepair 6D5500

Series 6D5500 · Solvent-free 2K polyaspartic repair system (cartridge) for highest corrosion protection



01 PRODUCT DESCRIPTION

Bergolin 2C SmartRepair 6D5500 is a solvent-free, abrasion-resistant repair solution in cartridge form that provides the highest corrosion protection and ensures excellent adhesion on metallic and mineral substrates. It can be applied in a single coat at high film thickness, cures quickly and is characterised by excellent color-shade stability and surface tolerance. This high-performance, trowellable coating effectively protects against corrosion in onshore and offshore plant construction as well as in structural steelwork (e.g. wind turbines, hydraulic steel structures) and is particularly suitable for durable, high-quality repairs and refurbishment. Combined with suitable broadcast materials, a slip-resistant surface can also be created.

02 PRODUCT PROPERTIES

Binder system	Polyaspartic
Hardener system	Bergolin Hardener 7D5500
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Solvent- & CMR-free  Highest corrosion protection  Very fast curing  Impact- & abrasion-resistant  Color-shade stable  Recoatable (2K PU)  Substratetolerant  Cures under water  Slip-resistant
Color shade	Approx. RAL 7035 (further color shades on request)
Gloss	Glossy
Shelf life	12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Delivery form / packaging	Two-component coaxial cartridge with static mixer (> 24 mixing elements; suitable for standard cartridge guns). 269 g per cartridge, 12 cartridges per box, 75 boxes per pallet.
Mechanical resistance	Hardness Shore D > 70
Chemical resistance	Resistant to industrial and marine atmospheres, fresh, brackish and salt water (further media on request)
Thermal resistance	Up to approx. +100 °C (dry heat) up to approx. +40 °C (moist heat and water)
Approvals and specifications	Internal verification of corrosivity category C5-H to DIN EN ISO 12944-6

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Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C * ¹	Approx. 1.64 g/cm ³	Approx. 1.13 g/cm ³	Approx. 1.46 g/cm ³
Solid content (wt.-%) · SDS * ¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Solid content (vol.-%) * ¹	Approx. 100 %	Approx. 100 %	Approx. 100 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 100,000 mPas	Approx. 12,000 mPas	Approx. 32,000 mPas

*¹ Depending on color shade

03 APPLICATION

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

Substrate	Steel, zinc/aluminium, stainless steel (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. Steel: Surface preparation to EN ISO 12944-4. Free from weld spatter, pores, overlaps, burrs, grease, oil and dirt. Manual de-rusting by abrading. Aluminium/zinc: Abrade or sweep-blast. Pretreatment of further substrates on request.
Mixing ratio	100 : 34.5 by weight 100 : 50 by volume
Theoretical consumption	Approx. 730 g/m² at 500 µm DFT Coverage: approx. 1.37 m²/kg at 500 µm DFT
Film thickness	Up to approx. 1,000 µm DFT (single coat)
Application method	 Brush  Roller  Trowel
Application conditions	 Material temperature > +10 °C  Surface temperature > -5 °C  Relative humidity < 85 %  Dew point min. 3 °C below object temperature
Working time ^{*2}	Approx. 30 min · DIN EN ISO 9396
Recoating interval (with itself) ^{*2}	Min. 30 min max. 6 h With Bergopur-MS-Einschichtlack 6D789: Min. 30 min max. 72 h
DRYING^{*2}	
Drying grade 1 (dust-dry)	Approx. 30 min at +20 °C
Drying grade 6 (tack-free)	Approx. 60 min at +20 °C
Drying grade 7 (through-dry)	Approx. 4 h at +20 °C (500 µm WFT)

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Fully cured (mech. & chem.)

Approx. 3 days

¹² Low 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

28.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

28.08.2026 – Stefan Eisenmenger, Product Management