

Bergolin SmartRepair ExoLine 6D6000

Series 6D6000 · Solvent-free 2K PUR repair solution for earth-covered steel tanks



01 PRODUCT DESCRIPTION

Bergolin SmartRepair ExoLine 6D6000 is a solvent-free, ready-to-use, cartridge-based two-component polyurethane repair solution developed specifically for the professional repair of damage and defects on earth-covered steel tanks and underground gas storage facilities. The system combines the proven material properties and high performance of the factory-applied Steodur ET 302 coating and ensures a seamless, mechanically highly loadable repair with equivalent corrosion, moisture and chemical protection. Dosed application directly from the cartridge enables precise and clean work even on smaller areas and in hard-to-reach locations. Thanks to easy handling, very fast curing and excellent adhesion to steel, the repair system is ideally suited for general maintenance, touch-up and recoating work on site.

02 PRODUCT PROPERTIES

Binder system	Polyurea / polyurethane
Hardener system	Bergolin Hardener 7D7000
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Solvent-free  Abrasion- & mech. resistant  Chemical-resistant  Fast-curing  Direct-to-Metal
Color shade	Yellow (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.
Mechanical resistance	Shore D hardness: 80
Chemical resistance	Permanently resistant to fresh and salt water; splash-resistant to petrols, heavy oils and aromatic hydrocarbons (further media on request)
Electrical resistance	At 1,000 µm: > 10 GΩ

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 1.47 g/cm³	Approx. 1.14 g/cm³	Approx. 1.38 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 4.21 g/l	Approx. 0 g/l	Approx. 2.82 g/l
Solid content (wt.-%) · SDS *1	Approx. 99.75 %	Approx. 100.00 %	Approx. 99.82 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C *1	Approx. 18,000 mPas	Approx. 60 s (4 mm)	–

*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, existing coating (Steodur ET 302); 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. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS). Existing coating (Steodur ET 302): Establish load-bearing capacity by mechanical roughening (sweep blasting / sanding).
Mixing ratio	100 : 38 by weight 100 : 50 by volume
Mixing	Stir both components separately and homogenise if necessary. Pour component B into the container of component A and mix with an electric stirrer for at least 3 min at max. 700 rpm. Transfer into a clean container and mix again thoroughly for approx. 1 min.
Theoretical consumption	138 g/m² per 100 µm WFT 138 g/m² per 100 µm DFT
Application method	 Trowel
Application conditions	 Air temperature > 0 °C  Relative humidity max. 80 %  Surface temperature min. +5 °C  Dew point min. 3 °C below surface temperature
Working time ^{*2}	Approx. 120 s
Recoating interval (with itself) ^{*2}	Min. as soon as the coating is load-bearing max. as long as the coating is still tacky. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding or sweep-blasting) is required.
DRYING^{*2}	
Dust-dry (TG 1)	Approx. 10 min
Fully dried (TG 7)	Approx. 30 min
Fully cured (mech. & chem.)	Approx. 7 days
Compatible systems	Topcoat: Steodur ET 302 Further applications on request.

^{*2} Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.

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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

24.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

24.08.2026 – Stefan Eisenmenger, Product Management