

Bergolin 2C BatteryTray Handmasse 6D2160

Series 6D2160 · Solvent-free 2K PUR hand-applied compound for steel tanks and battery trays



01 PRODUCT DESCRIPTION

Bergolin 2C BatteryTray Handmasse 6D2160 is a solvent-free, two-component polyurethane liquid coating for the internal and external coating of steel tanks and containers, in particular battery trays. The system was developed specifically for applications requiring high mechanical load capacity and chemical resistance. The coating is characterised by its high mechanical strength and pronounced resistance to lead-acid battery electrolyte and provides reliable protection against corrosive influences. Thanks to its solvent-free formulation, the product is suitable for low-emission coating applications and ensures a dense, durable protective layer for demanding industrial environments.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	PUR Hardener 7D055
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Solvent-free  Mechanically highly resistant  Resistant to lead-acid battery electrolyte  High-build
Color shade	Approx. RAL 9001 (further color shades 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. 1.47 g/cm ³	Approx. 1.23 g/cm ³	Approx. 1.39 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. 0 %	Approx. 100 %	Approx. 99.95 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C * ¹	Approx. 25,000 mPas	Approx. 60 s (4 mm)	Approx. 3,700 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 (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. Steel: Surface preparation to EN ISO 12944-4. Free of weld spatter, pores, laps, burrs, grease, oils and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS).
Mixing ratio	3 : 1 by weight 2.53 : 1 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	0.139 kg/m² per 100 µm WFT 0.139 kg/m² per 100 µm DFT
Application method	 Brush  Roller  Airless spray
Application conditions	 Air temperature > 0 °C  Relative humidity max. 85 %  Surface temperature min. +5 °C  Dew point min. 3 °C below surface temperature
Working time ^{*2}	Approx. 40 min
Recoating interval (with itself) ^{*2}	Min. 6 h max. 48 h. 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. 4 h
Fully dried (TG 7)	Approx. 12 h
Fully cured (mech. & chem.)	Approx. 7 days

^{*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

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management