STEODUR VS 84 6D230

Series 6D230 · Solvent-free 2K PUR high-build corrosion protection for steel (acc. to TL/TP-KOR sheet 84)

01 PRODUCT DESCRIPTION

STEODUR VS 84 6D230 is a high-performance, solvent-free, two-component polyurethane liquid plastic developed specifically for the high-build corrosion protection of steel surfaces, steel troughs and steel tank construction. The product meets the requirements of TL/TP-KOR steel structures, Annex E, sheet 84, and provides durable protection even under demanding conditions thanks to its excellent physical properties. Owing to its high abrasion resistance, shrink-free curing from +1 °C and its excellent adhesion to metallic and mineral substrates, the product is particularly suitable for applications with high mechanical loads. The coating can be applied in a single layer up to a film thickness of 3 mm, ensuring efficient and economical application.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	Bergolin PU hardener S55 7D055-ST
Cleaning thinner	Superdur Thinner 5D402
Characteristics	Solvent-free; Highly abrasion-resistant; Corrosion protection; High-build; Good adhesion; High mechanical load capacity; Tough-elastic
Color shade	Olive yellow (further color shades on request)
Gloss	Silk gloss
Shelf life	12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Mechanical resistance	Hardness Shore D70
Chemical resistance	Crude oils, diesel, petrol, HVO, jet fuel, alkaline solutions, alkalis, dilute organic and inorganic acids (further media on request)
Thermal resistance	Up to approx. +100 °C dry heat, briefly approx. +130 °C; up to approx. +40 °C moist heat and water
Container size comp. A	15 kg (further container sizes on request)
Container size comp. B	6 kg (further container sizes on request)
Approvals and specifications	In accordance with TL/TP-KOR steel structures, Annex E, sheet 84

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Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 1.27 g/cm³	Approx. 1.24 g/cm³	Approx. 1.25 g/cm³
VOC content · IE Directive 2010/75/EU *1	0 g/l	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. 5,300 mPas	Approx. 150 mPas	Approx. 3,500 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, cement concrete/screed (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). **Optional** primer: 1 × 30 µm Tenaxon T 569 (3E569), approx. 100 g/m² at 30 µm DFT. Drying/recoating interval at +20 °C: dust-dry after approx. 30 min. / recoatable after approx. 12 h. **Cement concrete/screed:** Solid, clean, textured and load-bearing; free of grease, oil, wax, sand, dust, release agents, loose/sanding particles and standing water. **Optional** primer: Steopox 220 (2E220), approx. 300–500 g/m² depending on absorbency; if required broadcast with fire-dried quartz sand 0.1–0.3 mm. Drying/recoating interval at +20 °C: dust-dry after approx. 4 h / recoatable, walkable after approx. 24 h.
Coating structure	Steodur VS 84, filled 1:1 with fire-dried quartz sand (grain size as required) Vertical surfaces: film thickness > 1 mm · horizontal surfaces: > 3 mm
Mixing ratio	2.5 : 1 by weight | 2.5 : 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	Approx. 1.25 kg/m² at 1 mm dry film thickness (unfilled)
Film thickness	Single-coat up to 3 mm (unfilled); filled > 6 mm
Application method	Squeegee
Application conditions	**Air temperature** +5 °C to +40 °C **Relative humidity** max. 85 % **Surface temperature** min. +10 °C **Dew point** min. 3 °C below surface temperature

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Working time[*2]	Approx. 40 min
Recoating interval (with itself)[*2]	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 to 6 h
Walkable	Approx. 12 h
Fully cured (mech. & chem.)	Mechanically approx. 24 h | chemically approx. 7 days
Compatible systems	Primer steel: Tenaxon T 569 (3E569) Primer cement concrete/screed: Steopox 220 (2E220) Topcoat: Bergopur MS single-coat 6D789 (RAL shades) Further applications on request.

[*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

20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

20.08.2026 – Stefan Eisenmenger, Product Management