

STEODUR-VERLAUFSBESCHICHTUNG 6D221

Series 6D221 · Solvent-free 2K PUR self-levelling floor coating



01 PRODUCT DESCRIPTION

Steodur-Verlaufsbeschichtung 6D221 is a solvent-free, two-component polyurethane self-levelling coating for the decorative and hard-wearing protection of mineral substrates such as cement concrete and screed; it also adheres to steel as well as zinc/aluminium. Thanks to its self-levelling character it forms a smooth, even and closed surface with high abrasion resistance and a glossy appearance. It is permanently resistant to fresh water, salt water and household cleaners, as well as splash-resistant to petrols, heavy oils and aromatic hydrocarbons. It is therefore particularly suited to decorative, mechanically and chemically loaded floors in industrial and commercial environments.

02 PRODUCT PROPERTIES

Binder system	Polyurethane
Hardener system	PUR Hardener 7D055
Cleaning thinner	Superdur Thinner 5D402
Characteristics	 Self-levelling, smooth surface  Solvent-free  Abrasion-resistant
Color shade	RAL 7035, RAL 7038 (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.
Mechanical resistance	Shore D hardness: 60
Abrasion resistance	To DIN EN 438-2: 24 mg CS10 / 1000 g / 1000 rev.
Chemical resistance	Permanently resistant to fresh water, salt water and household cleaners; splash-resistant to petrols, heavy oils and aromatic hydrocarbons (further media on request)
Thermal resistance	Up to approx. +80 °C dry heat, briefly approx. +140 °C up to approx. +40 °C moist heat and water
Container size comp. A	24 kg (further container sizes on request)
Container size comp. B	6 kg (further container sizes on request)

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Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 1.40 g/cm ³	Approx. 1.23 g/cm ³	Approx. 1.40 g/cm ³
VOC content · IE Directive 2010/75/EU *1	Approx. 21.72 g/l	Approx. 0 g/l	Approx. 19.55 g/l
Solid content (wt.-%) · SDS *1	Approx. 98.50 %	Approx. 100 %	Approx. 98.80 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C *1	Approx. 8,000 mPas	Approx. 60 s (4 mm)	Approx. 4,000 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	Cement concrete/screed and other mineral substrates, steel, zinc/aluminium (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. Cement concrete/screed: Surfaces must be firm, clean, free from grease, oil, wax, sand, dust and release agents, with good grip, load-bearing, free from loose/sanding particles and standing water. Optional primer: Steopox 220 (2E220), consumption approx. 300–500 g/m² depending on absorbency; if required, broadcast with kiln-dried quartz sand 0.1–0.3 mm. 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). Optional primer: 1 × 30 µm Tenaxon T 569 (3E569), consumption approx. 100 g/m² at 30 µm DFT. Zinc/aluminium: Clean and sweep-blast. Optional primer: 1 × 30 µm Tenaxon T 569 (3E569), consumption approx. 100 g/m² at 30 µm DFT.
Mixing ratio	100 : 25 by weight 90 : 25 by volume
Mixing	Pour component B into the container of component A and mix with an electric stirrer for at least 3 minutes at max. 700 rpm. Transfer to a clean container and mix again thoroughly for approx. 1 minute.
Theoretical consumption	140 g/m ² per 100 µm WFT 140 g/m ² per 100 µm DFT
Application method	 Perlon roller  Smoothing trowel
Application conditions	 Air temperature +10 °C to +35 °C  Relative humidity max. 80 %  Dew point min. 3 °C below object temperature
Pot life*2	Approx. 30 min
Recoating interval (with itself)*2	Min. 24 h · max. 48 h. After the maximum recoating time has elapsed, mechanical surface preparation (e.g. sanding or sweep-blasting) is required.

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DRYING^{*2}

Dust-dry (TG 1)	Approx. 4 h
Walkable / sandable	Approx. 24 h
Fully cured (mech. & chem.)	Approx. 7 days
Compatible systems	Primer cement concrete/screed: Steopox 220 (2E220) Primer steel and zinc/aluminium: Tenaxon T 569 (3E569) Further applications on request.

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

① 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