

Steopox 220 2E220

Series 2E220 · Colorless, solvent-free EP resin for priming mineral substrates



01 PRODUCT DESCRIPTION

Steopox 220 2E220 is a colorless, low-viscosity, solvent-free two-component epoxy resin for priming and sealing mineral substrates. As a universal resin it is used to produce levelling fillers and highly wear-resistant mortar screeds as well as an adhesion bridge between old and new concrete. The resin is resistant to frost and de-icing salt.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Bergolin EP Hardener 7E170 (for dry surfaces) Steopox Hardener 7E204 (for damp surfaces)
Cleaning thinner	EP Thinner 5E403
Characteristics	 Unpigmented  Solvent-free
Color shade	Colorless
Gloss	Glossy
Shelf life	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	Approx. 1.14 g/cm ³	7E170: 1.06 · 7E204: 1.03 g/cm ³	7E170: 1.10 · 7E204: 1.08 g/cm ³
VOC content · IE Directive 2010/75/EU	Approx. 0 g/l	Approx. 0 g/l	Approx. 0 g/l
Solid content (wt.-%) · SDS	Approx. 100 %	7E170: 65 % · 7E204: 100 %	7E170: 88 % · 7E204: 100 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 2,000 mPas	7E170: 400 · 7E204: 1,000 mPas	7E170: 800 · 7E204: 1,300 mPas

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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, zinc/aluminium, 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 from weld spatter, pores, overlaps, burrs, grease, oil and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or working mixture GS). Primer: 1 × 30 µm Tenaxon T 569, consumption approx. 100 g/m² at 30 µm DFT. Zinc/aluminium: Clean and sweep-blast. Primer: 1 × 30 µm Tenaxon T 569, consumption approx. 100 g/m² at 30 µm DFT. Cement concrete/screed: Surfaces must be firm, clean, free from grease, oil, wax, sand, dust and release agents, with good grip, load-bearing and free from standing water.
Mixing ratio	With 7E170: 100 : 50 by weight 100 : 56 by volume. With 7E204: 100 : 60 by weight 100 : 66 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.

THINNING RATIO & MATERIAL REQUIREMENT (WITH HARDENER 7E170) · APPROX. CONSUMPTION AT 1 MM/M²

Thinning ratio	Density (g/ml)	STEOPOX 220 (kg/m²)	Filler (kg/m²)	Mortar mix weight (kg/m²)	Properties of the mortar mix
1 : 1	approx. 1.66	0.83	–	1.66	As filler primer; priming and levelling in one pass
1 : 2	approx. 1.78	0.60	1.20	1.80	Self-levelling, smooth surfaces, can be broadcast
1 : 3	approx. 1.95	0.48	1.46	1.94	Flowable, workable with a trowel
1 : 4	approx. 2.04	0.40	1.64	2.04	Easily workable with a trowel, flowable surface
1 : 5	approx. 2.12	0.35	1.77	2.12	Easily workable with a trowel, smooth surface
1 : 6	approx. 2.18	0.31	1.87	2.18	Mortar consistency, some binder at the surface
1 : 7	approx. 2.22	0.28	1.94	2.22	Mortar consistency
1 : 8	approx. 2.26	0.25	2.01	2.26	Mortar consistency
1 : 9	approx. 2.28	0.23	2.05	2.28	Mortar consistency
1 : 10	approx. 2.30	0.21	2.09	2.30	Mortar consistency

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Application method	 Brush  Roller  Trowel
Application conditions	 Air temperature +8 °C to +30 °C  Relative humidity max. 85 %  Surface temperature min. +8 °C  Dew point min. 3 °C below surface temperature
Pot life ^{*2}	Approx. 40 min
Recoating interval (with itself) ^{*2}	Min. 48 h (recoating with itself)
DRYING^{*2}	
Dust-dry	Approx. 4 h
Walkable / sandable	Approx. 24 h
Fully cured (mech. & chem.)	Approx. 7 days
Compatible systems	Primer: Tenaxon T 569 (3E569). Further applications on request.

^{*2} Low temperatures slow down drying; higher temperatures accelerate it.

Note on epoxy resin: During curing, epoxy resin is sensitive to moisture. Exposure to moisture may lead to the formation of a carbamate layer (white spots). This has a purely visual effect. Affected areas can be treated with a 10–20 % citric acid solution.

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