

Epoxol® Primer SF-P

Solvent-free epoxy primer for flooring applications



Description

Two-component, solvent-free epoxy primer, for flooring applications, ideal in cases of substrates with increased porosity. Qualified for use in LEED projects globally, by showing compliance with the specifications for VOC emissions and VOC content.



Field of applications

- On floors which will be covered with resinous systems or coatings (**Epoxol®**, **Neopox®**, **Neodur®**)
- As a binder for resin mortars intended for smoothing, leveling, repairing etc.
- On floors and joints prior to the application of epoxy repairing – sealing materials **Epoxol® Putty** and **Epoxol® Liquid** for adhesion improvement

Packing

Set (A+B) of 9kg

Properties - Advantages

- Excellent adhesion on cementitious substrates
- Ideal solution for substrates of increased porosity
- High resistance to abrasion and chemicals (alkalis, dilute acids, etc.)
- Suitable for mixing with quartz sand of various grain sizes for the creation of multi-purpose resin mortars
- Complies with the strict VOC requirements for sustainable buildings, according to LEED guidelines
- Eco-friendly – Contains bio-based raw materials
- Classified as SR-B2,0 acc. to EN 13813

Certificates – Test reports

- CE certification acc. to EN 13813
Classified as SR-B2,0
- Qualified for use in LEED projects globally, by showing compliance with the specifications for VOC emissions and VOC content, as attested by the external independent specialized laboratory of Eurofins - Fulfils the requirement LEED v4 & v4.1 (beta): EQ Credit - Low-Emitting Materials
 - *Attestation LEED v4 and v4.1 (beta): EQ Credit - Low-Emitting Materials*
 - *VOC Emission Test report No. 392-2022-003450002 – Regulation: CDPH (California Department of Public Health) v.1.2-2017*
 - *VOC Content Test report No. 392-2022-00345006 – Regulation: SCAQMD (South Coast Air Quality Management District) Rule 1113 (2016)*
- Certified for its performance in terms of reaction to fire as part of the self-levelling systems **Epoxol® Floor** and **Neodur® Floor SF** acc. to EN 13501-1
System classification B_{fl}-s1 based on classification reports No. 1480\DC\REA\24_3 & 9 acc. to EN 13501-1 and individual test reports acc. to EN ISO 9239-1 (No.1480\DC\ REA\24_1 & 7) and acc. to EN ISO 11925-2 (No. 1480\DC\REA\24_2 & 8) by the independent accredited laboratory CSI S.p.A.
- Test reports by the external independent quality control laboratory Geoterra (No. 2021/483_2A & 2021/483_2B)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE



Technical characteristics (as a primer/ A+B)

Mixing ratio A:B (by weight)	6,5:2,5
Density (EN ISO 2811-1)	1,29kg/L (±0,05)
Solids content by weight	~100%
Solids content by volume	~100%
Adhesion strength (EN 13892-8)	≥3N/mm ²
Consumption: 200-300gr/m² for one layer (depending on the absorptivity of the substrate)	

Technical characteristics

(as a resin mortar for repairing-leveling, mixed with Quartz Sand M-32 in a ratio 1:2 w/w)

Adhesion strength (EN 13892-8)	≥3N/mm ²
Compressive strength (EN 13892-2)	≥58MPa
Flexural strength (EN 13892-2)	≥41MPa
Consumption: • ~0,6kg/m ² Epoxol® Primer SF-P + ~1,2kg/m ² Quartz Sand M-32 per mm of thickness (for resin mortar with mixing ratio 1:2 w/w) • ~0,8kg/m ² Epoxol® Primer SF-P + ~0,8kg/m ² Quartz Sand M-32 per mm of thickness (for resin mortar with mixing ratio 1:1 w/w)	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+12°C min. / +35°C max.

Curing details

Pot life (+25°C, RH 50%)	25 minutes
Drying time (+25°C, RH 50%)	7 hours
Dry to recoat - overcoat (+25°C, RH 50%)	24 hours
Full hardening	~ 7 days

** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*

Instructions for use

Substrate preparation

Concrete

The concrete must be min. Grade C20/25, with a tensile strength of $\geq 1,5\text{MPa}$, and allowed to cure for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open-textured surface and ensure optimum adhesion.

The surface must be dry and protected from rising moisture, stable, clean and free of dust, grease, oil, etc. Loose friable material must be fully removed by brushing or sanding with a suitable machine and a high suction vacuum cleaner.

The surface must be as smooth and flat as possible, as well as continuous (ie without voids, cracks etc.)

Application (as a primer)

The two components A & B are mixed in the predetermined ratio and mechanically stirred for app. 2-3 minutes with a low-speed stirrer, until the mixtures become homogenous. The surface is then covered in one layer by roller, brush, or airless spray. In cases of increased substrate porosity, an additional priming layer may be required.

Application (as a resin mortar for repairing-leveling)

After the mixing of components A & B of **Epoxol® Primer SF-P**, Quartz Sand M-32 is added under continuous stirring, in a ratio of 1:0,5-1:2 w/w (depending on the application) until the mixture becomes homogeneous. The mixture is then applied by smooth trowel on the already primed substrate.

Special notes

- **Epoxol® Primer SF-P** should not be applied under wet conditions, or if wet conditions are expected to prevail during the application or the curing period of the product.
- The components should not have been stored at very low or very high temperatures, especially before mixing. Mixing and stirring of the mixture should be preferably done in the shade. The stirring of the mixture must be done mechanically and not manually with a rod, etc.
- Excessive stirring of the material should be avoided, in order to mitigate the risk of air entrapment. After stirring the mixture, it is recommended to apply the material shortly in order to avoid the development of high temperatures and potential hardening inside the can
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
- Due to the nature of the material, the direct and permanent exposure of the final coating to UV radiation may cause the phenomenon of chalking over time
- In case that an extended period of time (>36 hours) has passed between successive layers, it is recommended to lightly sand the surface of the previous layer, in order to avoid possible adhesion problems of the next layer
- Depending on the intended use and the desired workability of the resulting resin mortar, **Epoxol® Primer SF-P** can be mixed with bigger quantities of quartz sand

Appearance (cured)	Glossy, coloured
Packing	Set (A+B) of 9kg in metal cans
Cleaning of tools – Stains removal	By Neotex® 1021 immediately after the application. In case of hardened stains, by mechanical means only.
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjSB: 500g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <500g/l
UFI code	<i>Component A:</i> 0MF0-90KV-Y009-93U2 <i>Component B:</i> FPF0-T099-800S-XFE4
Versions	Epoxol® Primer SF , solvent-free epoxy primer, for flooring applications Epoxol® Primer SF Winter , for applications in highly humid environments (RH up to 80%) and low temperatures (down to +5°C)
Storage stability	2 years, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.

CE	
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DoP No.: 4950-77 EN 13813 SR-B2,0 Epoxol® Primer SF-P Synthetic resin primer	
Release of corrosive substances	SR
Impact resistance	NPD
Bond strength	B2,0
Abrasion resistance	NPD
Reaction to fire	NPD

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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