

Epoxol® Primer SF

Solvent-free epoxy primer for flooring applications

Description

Solvent-free, two-component epoxy primer for flooring applications

Field of applications

- On floors and walls 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
- Suitable as an anti-dust sealer on old or new cement-based surfaces which require stabilization



Packing

Set (A+B) of 10kg

Properties - Advantages

- Excellent adhesion on cementitious substrates
- 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
- Ideal for stabilization and sealing of cementitious and various others porous substrates, preventing dust generation
- User-friendly, due to the low viscosity and the absence of solvents

Technical characteristics

Mixing ratio A:B (by weight)	64,5:35,5
Density (EN ISO 2811-1)	1,08kg/L (±0,05)
Solids content by weight	~100%
Solids content by volume	~100%
Adhesion strength (EN 13892-8)	≥3N/mm ²
Consumption: • 200-300gr/m ² for one layer (as a primer, depending on the absorptivity of the substrate) • ~0,8kg/m ² Epoxol® Primer SF + ~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%)	30 minutes
Drying time (+25°C, RH 50%)	7 hours
Dry to recoat - overcoat (+25°C, RH 50%)	24 hours
Full hardening	~ 7 days
<i>* Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i>	

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 stirred for app. 2-3 minutes with a low-speed electric 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**, Quartz Sand M32 or M-300 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** 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 must not be stored in very low or very high temperatures, especially before their mixing. Preferably, the mixing and stirring of the mixture is recommended to be done in the shade. The stirring must be done mechanically and not manually with rods etc.
- It is recommended not to over-stir the product, in order to avoid air entrapment in the mixture. After the stirring of the mixture, it is recommended to apply it immediately in order to prevent high temperatures and its polymerization inside the container
- 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** can be mixed with bigger quantities of quartz sand

Appearance	Transparent, yellowish
Packing	Set (A+B) of 10kg 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> R7E0-60JJ-200C-QNH1 <i>Component B:</i> XP20-X0NQ-D00G-ANU3 <i>Component A (Winter):</i> R7E0-60JJ-200C-QNH1 <i>Component B (Winter):</i> 7AE0-Q07X-C00V-C033
Εκδόσεις	Epoxol® Primer SF Winter , for applications in highly humid environments (RH up to 80%) and low temperatures (down to +5°C). Mixing ratio 6,65A : 3,35B w/w Epoxol® Primer SF - P , ideal for substrates of increased porosity
Storage stability	2 years, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.



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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