

Epoxol® Putty

**Thixotropic, two-component bonding-sealing system,
based on epoxy resins**

Description

Thixotropic, two-component solvent-free epoxy system, for repairing, sealing, fixing and bonding applications, with high mechanical and chemical resistance. It has a high viscosity to cover large gaps without flowing.



Fields of application

- Leveling – repairing of floors prior to the application of resinous systems or coatings **Epoxol®**, **Neopox®**, **Neodur®**
- Anchoring, applications - Powerful bonding of metals, concrete, wood, ceramics, PVC pipes - Repairs of local damage in vehicles (e.g. fuel tanks) - electrical uses (e.g. embedding, etc.)

Packing

Set (A+B) of 6kg and 1kg

Properties - Advantages

- Consists of pure resins and selected hardeners, free of solvents, extenders or fillers, offering very high mechanical and chemical resistance
- Excellent resistance to fresh and sea water, dilute acids, alkalis, petroleum products
- Very high bonding ability
- Excellent adhesion on a wide variety of substrates (cement-based, metallic, wooden, polyester, etc.)
- Can be also used in other mixing ratios apart from the standard ratio 1:1, depending on the application and the elasticity requirements

Technical characteristics

Mixing ratio A:B (by weight)	a) 1:1 – Standard version, for bonding and repairing applications b) 2:1 – Hard version c) 1:2-2,5 – Elastic version
Density (EN ISO 2811-1)	1,10kg/L (±0,05)
Solids content by weight	~100%
Solids content by volume	~100%
Adhesion strength (EN 13892-8)	≥2,5N/mm ²

Resistance to temperatures (dry loading)	-30°C min. / +80°C max.
Maximum application thickness per layer	3cm
Consumption: ~1,1kg/m² per mm of thickness	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+8°C min. / +35°C max.

Curing details

Pot life (+20°C)	1,5-2 hours
Drying time (+20°C)	6-8 hours
Full hardening	~5-7 days

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

Appropriate primers on concrete substrate

	Primer	Description - Details
Solvent-free	Epoxol® Primer SF	Two-component, solvent-free epoxy primer for flooring applications
	Epoxol® Primer SF-P	Two-component, solvent-free epoxy primer, ideal in cases of substrates with increased porosity
	Neopox® Primer WS	Two-component, solvent-free epoxy primer for wet surfaces (without ponding water or rising moisture)
	Neopox® Primer AY	Two-component, solvent-free anti-osmotic epoxy primer, for floors with rising moisture
Water-based	Acqua Primer	Two-component water-based epoxy primer
Solvent-based	Epoxol® Primer	Two-component solvent-based epoxy primer

Appropriate primers on metallic substrate (iron - steel)

Solvent-based	Neopox® Primer 815	Two-component, anticorrosive solvent-based epoxy primers suitable for metallic surfaces
	Neopox® Special Primer 1225	

Instructions for use

Substrate preparation

The substrate must be stable, clean, dry & protected from rising moisture, as well as free of dust, oil, grease, dirt and any loose or poorly adhering material. Depending on the substrate, proper mechanical preparation may be required to smooth out the irregularities, create an open-textured surface, and ensure optimum adhesion. In the case of non-

porous and glossy surfaces, sanding improves the final result. If needed, cleaning of the surfaces, that are to be bonded, may be done with solvent **Neotex® 1021**.

Priming

For the stabilization of the substrate and sealing of pores, as well as for creating the optimum conditions for stronger adhesion of **Epoxol® Putty**, it is recommended to apply the solvent-free epoxy **Epoxol® Primer SF-P** or an alternative appropriate **NEOTEX®** primer (see table), depending on the substrate. In cases of substrates with increased porosity, an additional priming layer may be required.

Application

The required quantity is removed from the containers with a different tool for each component separately. The two components are then mixed very well in the desired ratio with a suitable hand tool, until the mixture becomes homogeneous. The mixture is then spread on the application surface with a trowel or construction spatula, pressing it onto the surface in order to fill the gaps.

The standard mixing ratio for repairs and bonding is 1A : 1B w/w. Small deviations from this ratio do not have a significant effect on the final properties.

The mixing ratio of 2A : 1B w/w (hard version) results in a hard epoxy paste, suitable for anchoring of reinforcements, floor repairs, electrical applications etc.

The mixing ratio 1A : 2-2,5B w/w (elastic version) results in an elastic epoxy paste, suitable for sealing joints and gaps that are subject to contractions and expansions. This version must not be overcoated by other hard resinous systems or coatings.

Special notes

- **Epoxol® Putty** 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.
- Due to the nature of the material, its direct and continuous exposure to UV radiation may cause chalking over time
- In case of storage at low temperatures, the product acquires a very high viscosity and it is recommended to warm it up before the use, so that it returns to its normal rheological state.

Appearance (mixture)	Semi-transparent, yellowish
Packing	Set (A+B) of 6kg and 1kg in plastic pails
Cleaning of tools – Stains removal	By Neotex® 1021 immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AgSB: 350g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <350g/l



UFI code	<i>Component A:</i> 5U20-Y01H-000G-NC07 <i>Component B:</i> 7X20-FOQW-900Y-APK9
Versions	Epoxol® Liquid , fluid version, for repairing and bonding applications on horizontal surfaces and sealing of small gaps and openings
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight. It is advisable to avoid storage at temperatures below +8°C.

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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