

Epoxol® Repair

High-thixotropy, solvent-free epoxy paste-adhesive for multiple applications

Description

Highly thixotropic, two-component, solvent-free, epoxy paste-adhesive for bonding, sealing, anchoring, restorations and repairs of building elements

Fields of application

- Bonding, sealing, and anchoring
- Restoration of geometry and repair of building elements

Ideal bonding material for concrete, mortars, bricks, ceramics, cement blocks, steel, cast iron, aluminum, wood, glass, and polyester.

Particularly suitable for repairs on corners and edges.



Packing

Set (A+B) of 1,5kg

Colour

Grey

Properties – Advantages

- Strong bonding and excellent adhesion to a wide variety of substrates (cementitious, metallic, wooden, ceramic, polyester, etc.)
- Highly thixotropic: does not sag on vertical surfaces (for layer thicknesses up to 25 mm)
- May be applied in increased thickness per layer on horizontal surfaces (up to 50 mm per coat)
- Excellent resistance to mechanical-chemical stress and temperature fluctuations
- Presents adhesion on wet concrete
- High final mechanical properties
- Hardening without shrinkage
- Impermeable to water and vapours
- Components of different colours, allowing easy control of mixing and homogenization
- Extremely low content of volatile organic compounds (VOC)
- Outstanding workability

Technical characteristics

Mixing ratio A:B (by weight / by volume)	2:1
Density (EN ISO 2811-1)	1,69kg/L (±0,05)

Solids content by weight	~100%
Solids content by volume	~100%
VOC content	<1g/l
Adhesion strength (EN 1542, dry concrete)	≥2,5N/mm ²
Resistance to temperatures (dry loading)	-30°C min. / +80°C max.
Maximum application thickness per layer (horizontal)	5cm
Maximum application thickness per layer (vertical)	2,5cm
Consumption: ~1,7kg/m² per mm of thickness	

Application conditions

Substrate moisture content	No ponding water or rising moisture <i>In case of application on fresh concrete surfaces, firm pressure on the substrate is recommended</i>
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+8°C min. / +35°C max.

Curing details

Pot life (+23°C, RH 50%)	~70 minutes
Drying time (+23°C)	8-10 hours
Dry to overcoat (+23°C)	~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*

Appropriate primers on concrete substrate

	Primer	Description - Details
Solvent-free	Epoxol® Primer SF-P	Two-component, solvent-free epoxy primer, ideal in cases of substrates with increased porosity
	Epoxol® Primer SF	Low-viscosity, two-component epoxy primer, free of solvents and fillers, ideal for flooring applications
	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, proper mechanical preparation (e.g. sandblasting, sanding) improves the final result. If needed, cleaning of the surfaces, that are to be bonded, may be done with solvent **Neotex® 1021**. For the removal of oil or grease, the use of **Oil Cleaner** is specifically recommended

Priming

For the stabilization of the substrate and sealing of pores, as well as for creating the optimum conditions for stronger adhesion of **Epoxol® Repair**, it is recommended to apply the appropriate **NEOTEX®** primer, 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 (2A : 1B w/w or v/v) 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 that are to be repaired-sealed (e.g. voids, cracks, joints, etc.). In the case of bonding applications, it is recommended that the material be applied to both surfaces to be joined, in order to achieve enhanced final performance.

*The epoxy system **Epoxol® Repair** can also be applied directly onto fresh concrete substrates (provided there is no ponding water or rising damp). In such cases, firm pressure should be applied during installation to optimize adhesion.*

Special notes

- **Epoxol® Repair** 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 may acquire an excessively high viscosity. In such case, it is recommended to warm it up before the use, so that it returns to its normal rheological state.

Appearance (mixture)	Grey
Packing	Set (A+B) of 1,5kg 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> W3S0-J0N1-X00V-XKME <i>Component B:</i> P6S0-20AF-800C-MX6R
Versions	Epoxol® Pro , fine-grained epoxy putty of high thixotropy for repairs and bonding applications Epoxol® Putty , thixotropic epoxy system, for repairing and bonding applications, with high viscosity, in order to seal big gaps, without flowing 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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