L'UNICFLOOR · EPOXY COMPOUNDS

Unepox Compound ST 2K

Solvent-free standard epoxy putty

COLOURS

White · beige-grey

solvent-free putty

2.25 g/cm³	up to 1 cm	> 62 N/mm²	approx. 45 min	2.2 kg/m²
Mass density (mixed)	Layer thickness, no sagging	Compressive strength (7 d)	Pot life (20 °C)	per 1 mm thickness

Product description

UNEPOX COMPOUND ST 2K is a two-component, high-build, polyamine-cured, solvent-free epoxy putty for concrete and other suitable substrates. It combines a thixotropic, solvent-free epoxy resin with a special hardener, graded fillers and characteristic agents.

Application areas

- Bedding and gap filling in concrete repair
- Floor and surface resurfacing before topcoat application
- Repair of spots, pinholes, minor depressions and cracks
- Damaged concrete surfaces

Advantages

- Outstanding water and crude-oil resistance
- Good abrasion and impact resistance
- Up to 1 cm thickness without sagging
- Cures down to +10 °C
- Excellent adhesion to steel, concrete and metal
- Excellent water and corrosion resistance
- High strength
- Easy application

Position in the system

Topcoat
L'unicfloor epoxy topcoat / self-levelling

Intermediate coat
UNEPOX PRIMER · PRIMER WB · UNDERCOAT

Epoxy putty / repair layer — THIS PRODUCT
UNEPOX COMPOUND ST 2K · 2.2 kg/m² per mm

Substrate
Concrete · steel · metal

L'unicfloor repair system

Solvent-free epoxy putties for concrete repair

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Mechanical performance · after 7 days

Typical values of the cured **UNEPOX COMPOUND ST 2K** at 20 °C.

> 62 N/mm²	> 13 MPa	> 13 MPa	> 2050 psi	4.6 MPa
Compressive · ASTM C579	Flexural · ASTM C348	Tensile · ASTM C307	Shear bond · ASTM C882	Pull-off (concrete failure)

Pull-off adhesion is an average value; failure occurred in the concrete.

Technical data (at +20 °C)

Colours	**White, beige-grey**	Overcoating interval	**min. 24 h – max. 48 h**
Mass density (mixed, 20 °C)	**approx. 2.25 g/cm³**	Full cure	**7 days**
Solids (by volume)	**approx. 100 %**	Mixing ratio	**3 : 1 by weight**
Pot life	**approx. 45 min (20 °C) · 25 min (30 °C)**	Spreading rate	**2.2 kg/m² at 1 mm**
Touch dry	**4–6 h**	Electrical resistance	**approx. 10^{13} Ohm**
Curing time	**12–16 h**	Application method	**Putty knife or spatula**

Chemical resistance · spillages

Diluted acids (sulphuric, hydrochloric, acetic, lactic) · Diluted alkalis (sodium hydroxide, ammonia) · Toluene · Petrol · Kerosene · Hydraulic oil · Vegetable oils · Used sump oil · Sodium chloride

Application procedure

01 — Surface preparation
Remove oil, grease, salts and other contaminants by high-pressure water jet; abrasive or sand blasting if necessary.

02 — Mixing
Mix both components thoroughly until a homogeneous light grey. Mixed material above +10 °C. Never add thinner or water – it causes sagging.

03 — Application
Apply with a putty knife to the required smoothness, on dry, clean surfaces above dew point. Ensure ventilation.

04 — Subsequent coat
Topcoats need an intermediate coat – UNEPOX PRIMER, UNEPOX PRIMER WB or UNDERCOAT is highly recommended.

Mixing ratio (by weight)



3 parts Base

1 part Hardener

Supplied as 3.750 kg base + 1.250 kg hardener.

Application conditions
above +10 °C
Mixed material above +10 °C; surface dry and above dew point.

Consumption
2.2 kg/m²
Theoretical, per 1 mm thickness – depends on surface permeability and porosity.

Pot life
45 min
At +20 °C; approx. 25 min at +30 °C.

Important: do not add thinner or water to the product – it causes sagging.

Points to consider

- Drying at 10 / 23 / 40 °C – touch dry: 30 / 18 / 12 h.
- Walk-on dry at 10 / 23 / 40 °C: 42 / 24 / 16 h.
- Dry to overcoat at 10 / 23 / 40 °C: 46 / 30 / 20 h.
- Full curing at 10 / 23 / 40 °C: 10 / 7 / 3 days.
- Electrical resistance approx. 10^{13} Ohm; thermal expansion 20–22 × 10^{-6}.
- Resists dry heat up to 110 °C.

Packaging

- 3.750 kg base + 1.250 kg hardener in cans

Safety

- Avoid eye contact and swallowing; flush eyes with plenty of fresh water and seek medical advice.
- Ensure ventilation and avoid inhaling vapours.
- Wear suitable clothing, gloves and goggles; barrier cream recommended.
- See the Material Safety Data Sheet.

Cleaning

- Clean tools with SPECIAL THINNER UP-002.

LEGAL NOTE

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved construction practices. UNICA does not make, nor does it authorise any agent or representative to make, any warranty, express or implied, concerning this material, as workmanship, weather, construction, equipment utilised and other variables affecting results are all beyond our control. UNICA warrants only that the material conforms to product specifications, and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNICA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNICA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

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