L'UNICFLOOR · SELF-LEVELLING EPOXY SCREED

Unepox SL 3K

Three-component solvent-free epoxy self-levelling screed

COLOUR
RAL colours
custom on request

1.69 g/cm³	99.5 %	4–6 h	72 N/mm²	3.5 kg/m²
Mass density	Solids (by volume)	Touch dry	Compressive strength	for 2 mm DFT

Product description

UNEPOX SL 3K is a three-component, polyamine-cured, solvent-free epoxy self-levelling screed of 100 % solids epoxy resin filled with graded quartz and silica. It forms a fluid mixture spread by V-notched squeegee or trowel, for new construction and renovation over most sound floors.

Application areas

- Clean rooms, pharmaceutical plants, laboratories
- Food & beverage processing, dairies, bottling
- Hangars, garages, machine shops
- Warehouses, packaging, corridors
- Chemical processing, waste-water treatment

Advantages

- 100 % solids, solvent-free
- Dense, non-porous, chemical and dirt resistant
- Seamless, low maintenance
- High wear for light to medium traffic
- Can be sealed for abrasion, gloss and non-skid
- Suitable for clean rooms

Position in the system

Topcoat (optional)
Sealer coat – abrasion, gloss, non-skid; aliphatic PU in sunlight

Self-levelling screed — THIS PRODUCT
UNEPOX SL 3K · 2–3 mm

Primer
UNEPOX PRIMER / UNEPOX 128-05 PRIMER

Substrate
Concrete ≥ 21 days · sound, dry

L'unicfloor SL 3K

Quartz-filled epoxy screed, 2–3 mm

Cleanroom suitable material
CSM tested · report UN 2110-1264

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Technical data (at +20 °C)

Mass density (20 °C)	**approx. 1.69 g/cm³**	Electrical resistance	**~10E12 Ω**
Solids (by volume)	**approx. 99.5 %**	Thermal conductivity	**~0.3 kcal/mh°C**
Touch dry	**4–6 h**	Tensile strength	**37 N/mm²**
Overcoating interval	**min. 24 h – max. 48 h**	Compressive strength	**72 N/mm²**
Full cure	**7 days**	Mixing ratio A : B : C	**50 : 15 : 35**
Traffic after seal coat	**light 12–16 h · heavy 24–36 h**	Spreading rate	**3.5 kg/m² for 2 mm**
Linear thermal expansion	**18–30.10E6 /°C**	Shelf life	**12 months**

Application procedure

01

Surface preparation

Substrate above 10 °C, free of hydrostatic pressure, moisture transmission, paint and curing agents. Optimum room 20 °C, slab min. 10 °C.

02

Priming

Prime with a suitable primer (UNEPOX PRIMER / **UNEPOX 128-05** PRIMER) to maximise adhesion and prevent outgassing and air bubbles.

03

Mixing

Stir each component, mix 50 parts A with 15 parts B for 3 min (200–300 rpm), then add 35 parts quartz (C). Use within 30–40 min.

04

Application

Pour in strips and spread 6–7 m² per 25 kg with a trowel in one direction for 2–3 mm. Do not back-roll or use a spiked roller. Cure overnight, min. 12–16 h.

Mixing ratio (by weight)

50 parts | **15 parts** | **35 parts**

- **50 parts** — Part A – epoxy base
- **15 parts** — Part B – hardener
- **35 parts** — Part C – quartz filler

Supplied as 12.5 kg A + 3.75 kg B (metal cans) + 8.75 kg quartz filler (PP bags).

Application conditions
≥ +10 °C
Substrate above 10 °C; optimum room temperature 20 °C.

Consumption
6–7 m² / 25 kg
For approx. 2–3 mm thickness.

Traffic
12–16 h / 24–36 h
Light / heavy traffic after the seal coat.

Important: urethane finish coats are recommended for areas exposed to intense sunlight.

Points to consider

- Mix only what can be used in 30–40 min with a low-speed mixer (200–300 rpm).
- End the day at doorways or joints, or use 5 cm masking tape; remove it after approx. 30 min.
- Work must be done by trained or experienced contractors.

Packaging

- 12.5 kg component A (metal can)
- 3.75 kg component B (metal can)
- 8.75 kg quartz filler (PP bag)

Storage

- Store in sealed original containers indoors, dry, at +10…+35 °C.
- Shelf life: 12 months from production in a cool, dry place.

Safety

- Component A contains epoxy resin; component B alkaline amines (sensitiser).
- May cause skin sensitisation or allergic reactions.
- Ventilate well, especially if heated or sprayed; avoid eye and skin contact.
- Wear protective clothing, goggles and gloves; wash thoroughly after use.

Cleaning

- Clean tools and equipment before the material gels with xylene.

LEGAL NOTE

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