L'UNICFLOOR · SELF-LEVELLING EPOXY SCREED

Unepox SL AR 2K

Acid-resistant two-component epoxy self-levelling screed

COLOUR
RAL colours
custom on request

1.67 g/cm³	100 %	4–6 h	72 N/mm²	3.4 kg/m²
Mass density	Solids (by volume)	Touch dry	Compressive strength	for 2 mm DFT

Product description

UNEPOX SL AR 2K is the acid-resistant (AR) version of the L'unicfloor self-levelling screed: a two-component, polyamine-cured, solvent-free epoxy of 100 % solids filled with graded quartz and silica, for new and renovated areas demanding acid resistance.

Application areas

- Chemical processing and acid-exposed areas
- Food & beverage processing, dairies, distilleries
- Pharmaceutical plants, laboratories
- Waste-water treatment facilities
- Pulp and paper processing

Advantages

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

Position in the system

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

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

Primer
UNEPOX PRIMER / UNEPOX 128-05 PRIMER

Substrate
Concrete ≥ 21 days · sound, dry

L'unicfloor SL

Quartz-filled epoxy screed, 2–3 mm

Acid resistant · AR
Exposure to acidic media after 7 days

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BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
Factory: Gümüşova OSB 1. Sk. No:4 İç Kapı No:1 Gümüşova / Düzce – TÜRKİYE
T +90 216 304 03 05 · F +90 216 304 12 15
unicaboya.com · info@unicaboya.com

Technical data (at +20 °C)

Mass density (20 °C)	**approx. 1.67 g/cm³**	Electrical resistance	**~10E12 Ω**
Solids (by volume)	**approx. 100 %**	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	**77 : 23**
Traffic after seal coat	**light 12–16 h · heavy 24–36 h**	Spreading rate	**3.4 kg/m² for 2 mm**
Linear thermal expansion	**18–30.10E6 /°C**	Acidic media	**after 7 days**

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 77 parts A with 23 parts B for 3 min (200–300 rpm). 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 min. 48 h for ideal acid resistance.

Mixing ratio (by weight)



77 parts
Part A – epoxy base

23 parts
Part B – hardener

Supplied as 19.25 kg A + 5.75 kg B (metal cans).

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: allow at least 48 hours of curing for ideal acid resistance and 7 days before exposure to acidic media.

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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

- 19.25 kg component A (metal can)
- 5.75 kg component B (metal can)

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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