L'UNICFLOOR · SELF-LEVELLING EPOXY

Unepox SL 2K

Two-component solvent-free self-levelling epoxy floor coating

COLOUR
RAL colours
glossy finish

1.37 g/cm³	99.5 %	4–6 h	72 N/mm²	2.7–3.3 kg/m²
Specific gravity	Solids (by volume)	Touch dry	Compressive strength	for 2 mm DFT

Product description

UNEPOX SL 2K is a two-component, glossy, flowable, solvent-free epoxy floor coating with polyamine hardener. As a cleanroom-certified material it provides ideal hygiene, antibacterial, physical and chemical resistance; it can be extended 1 : 1 with 0.1–0.3 mm silica sand.

Application areas

- Food & beverage processing, dairies, bottling
- Pharmaceutical plants, laboratories, clean rooms
- Warehouses, packaging, garages, hangars
- Chemical processing, waste-water treatment
- Corridors, cafeterias, locker rooms, showers
- Acid tanks and areas exposed to acids and alkalis

Advantages

- Cleanroom-certified material
- Hygienic and antibacterial
- Dense, pore-free surface
- Chemical and abrasion resistant
- Can be extended with silica sand
- Can be top-coated for abrasion and high gloss

Position in the system

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

Self-levelling coat — THIS PRODUCT
UNEPOX SL 2K · approx. 1 mm

Primer
UNEPOX PRIMER 2K / PRIMER WB 2K / 128-05 SF PRIMER

Substrate
Concrete ≥ 21 days · sound, dry

L'unicfloor SL
Hygienic self-levelling epoxy floor

Cleanroom certified material
Hygienic · antibacterial

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BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
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Technical data (at +20 °C)

Specific gravity (20 °C)	**approx. 1.37 g/cm³**	Electrical resistance	**~10E12 Ω**
Solids (by volume)	**approx. 99.5 %**	Tensile strength	**37 N/mm²**
Touch dry	**4–6 h**	Compressive strength	**72 N/mm²**
Interval between coats	**min. 24 h – max. 48 h**	Mixing ratio	**77 A : 23 B by weight**
Full curing	**7 days**	Spreading rate, 2 mm	**2.7 kg/m² · 3.3 kg/m² with sand**
Light / heavy traffic	**after 48 h / 72 h**	Silica sand addition	**1 : 1 (0.1–0.3 mm)**
Linear thermal expansion	**18–30.10E6 /°C**	Shelf life	**12 months**

Application procedure

01

Surface preparation

Sound, dry substrate ≥ 10 °C, free of hydrostatic pressure, moisture transmission, paint and curing agents. New concrete cured ≥ 21 days; remove laitance, dirt and oil.

02

Priming

Prime every floor with a suitable primer (UNEPOX PRIMER 2K, **UNEPOX PRIMER WB 2K** or **UNEPOX 128-05 SF PRIMER** 2K) to maximise adhesion and prevent outgassing.

03

Mixing

Stir each component, add B to A and mix 3 min (200–300 rpm). Optionally add 0.1–0.3 mm silica sand / quartz 1 : 1. Use within 30–40 min.

04

Application

Spread 13–14 m² per 20 kg (unfilled) for 1 mm with a V-notch trowel in one direction; de-aerate with a spiked roller. Cure 16–24 h.

Mixing ratio (by weight)



77 parts
Component A – epoxy base

23 parts
Component B – polyamine hardener

Supplied as 20 kg kits (16.4 kg A + 4.6 kg B). Optional: 1 part mix : 1 part silica sand / quartz 0.1–0.3 mm.

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

Consumption
13–14 m² / 20 kg
Unfilled, for approx. 1 mm thickness.

Traffic
48 h / 72 h
Light / heavy traffic after the final coat.

Important: use an aliphatic polyurethane topcoat in areas exposed to intense sunlight.

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Points to consider

- Optimum room temperature 20 °C; minimum slab temperature 10 °C for proper cure.
- 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

- 20 kg kit: 16.4 kg A + 4.6 kg B in metal tins

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 UP-002 cleaning thinner.

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are intended to guide applicators. As workmanship, weather conditions, construction, equipment used and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations or changes in conditions in the substrate where its products are applied.

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