L'UNICFLOOR · CONDUCTIVE SELF-LEVELLING EPOXY

Unepox SLC 3K

Solvent-free conductive epoxy self-levelling screed

COLOUR
RAL colours
limited conductive range

1.63 g/cm³	99.9 %	10E5–7 Ω	12 h	3.2 kg/m²
Mass density	Solids (by volume)	Electrical conductivity	Touch dry	for 2 mm DFT

Product description

UNEPOX SLC 3K is a three-component, solvent-free, electrically conductive epoxy self-levelling screed. It consists of 100 % solids epoxy resin filled with graded quartz, silica and graphene nano tubes, for floors that must dissipate static charge.

Application areas

- Electrical equipment rooms and high-voltage rooms
- Electronics production
- Computer rooms and TV studios
- Hospitals
- New construction and renovation over sound floors

Advantages

- Electrically conductive (DIN 51953)
- 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
- 100 % solids, solvent-free

Position in the system

Conductive self-levelling screed — THIS PRODUCT
UNEPOX SLC 3K · 8–10 m² per 25 kg

Earthing
Self-adhesive copper sheet every 10 m²

Conductive primer
UNEPOX PRIMER CWB – 80–90 m² per 25 kg

Substrate
Concrete · sound, dry, ≥ 10 °C

L'unicfloor conductive

ESD floor: conductive primer + copper grid + SLC screed

10E5–7 Ω · DIN 51953
Electrical conductivity

unica | Boytem
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Technical data (at +20 °C)

Mass density (20 °C)	**approx. 1.63 g/cm³**	Friction coefficient	**0.24**
Solids (by volume)	**approx. 99.9 %**	Compressive strength (28 d)	**52.2 N/mm²**
Touch dry	**12 h**	Tensile strength (28 d)	**13.9 N/mm²**
Overcoating interval	**min. 24 h – max. 48 h**	Stretching resistance (28 d)	**22.1 N/mm²**
Full cure	**7 days**	Mixing ratio A : B : C	**50 : 15 : 35**
Electrical conductivity	**10E5–7 Ω (DIN 51953)**	Spreading rate	**3.2 kg/m² for 2 mm**
Abrasion loss	**156 mg / 100 cycles**	Shelf life	**12 months**

Application procedure

01

Conductive primer

Prime with UNEPOX PRIMER CWB (3 A : 1 B by weight), 80–90 m² per 25 kg, by rubber squeegee and back-rolled with a short-nap roller.

02

Copper grid

When the primer is completely dry, fix self-adhesive copper sheets on the surface every 10 m².

03

Mixing

Stir each component, then mix A 50 % : B 15 % : C 35 % with a slow-speed drill. Mix only what can be used in 30–40 min.

04

Application

Spread 8–10 m² per 25 kg with a V-notch steel trowel, release air with a spiked roller – no back-rolling. Cure 24–36 h.

Mixing ratio (by weight)



- **50 %** Part A – epoxy base
- **15 %** Part B – hardener
- **35 %** Part C – conductive filler

Supplied as 25 kg sets (A + B + C) in metal cans.

Conductivity
10E5–7 Ω
DIN 51953 – static dissipative floor system with copper earthing.

Consumption
3.2 kg/m²
For 2 mm average dry thickness; 8–10 m² per 25 kg.

Traffic
48 h / 7 days
After seal coat: light traffic 48 h, heavy traffic 7 days.

Important: the conductive function requires the complete system – UNEPOX PRIMER CWB conductive primer and copper earthing sheets every 10 m².

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Points to consider

- Optimum room temperature 20 °C; substrate above 10 °C during application.
- Substrate free of hydrostatic pressure, moisture transmission, paint and curing agents.
- Chemical resistance: consult Unica technical service.
- Work must be done by trained or experienced contractors.

Packaging

- 25 kg sets (A + B + C) in metal cans

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 special thinner.

LEGAL NOTE

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