L'UNICFLOOR · CONDUCTIVE WATER-BASED EPOXY

Unepox SL CWB 2K

Water-based conductive epoxy floor coating with carbon nanotubes

COLOUR
RAL colours
specific range · matt

1.75 g/cm³	89 %	~10E5 Ω	4–6 h	3.5 kg/m²
Mass density	Solids (by volume)	Electrical conductivity	Touch dry	for 2 mm DFT

Product description

UNEPOX SL CWB 2K is a two-component, water-based epoxy floor coating with polyamine dispersion hardener, produced with carbon nanotube technology. It is a matt, quartz-filled flowable conductive coating (C = conductive, WB = water-based) for medium to heavy traffic.

Application areas

- Operating rooms
- Computer rooms
- Electronic device production lines
- Television studios
- Production and storage areas with high electrical charge

Advantages

- Electrically conductive – carbon nanotubes
- Water-based, cleaned with water
- Dense, non-porous, chemical and dirt resistant
- Smooth, low maintenance
- High wear for medium / heavy traffic
- Matt finish

Position in the system

Conductive WB coating — THIS PRODUCT
UNEPOX SL CWB 2K · approx. 2 mm

Conductive primer
UNEPOX PRIMER CWB 2K

Substrate
Concrete ≥ 21 days · sound, dry

L'unicfloor conductive

Water-based ESD floor with conductive primer

~10E5 Ω
Electrical conductivity

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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)	**1.75 g/cm³**	Electrical conductivity	**~10E5 Ω**
Solids (by volume)	**89 %**	Abrasion resistance	**156 mg / 1000 cycles**
Touch dry	**4–6 h**	Flexural strength	**3.5 N/mm²**
Interval time	**min. 24 h – max. 48 h**	Tensile strength	**12.7 N/mm²**
Full cure	**7 days**	Compressive strength	**54 N/mm²**
Light / heavy traffic	**after 24 h / 48 h**	Mixing ratio A : B	**77 : 23**
Linear thermal expansion	**20–22.10E6 /°C**	Spreading rate	**3.5 kg/m² for 2 mm**

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 with UNEPOX PRIMER CWB 2K conductive primer for maximum adhesion and to prevent outgassing and air bubbles.

03

Mixing

Mix A with B for 3 min (200–300 rpm), rest 2–3 min. Use within 30–40 min.

04

Application

Pour in strips, spread 6–7 m² per 25 kg with a V-notch trowel in one direction for an even layer of approx. 2 mm.

Mixing ratio (by weight)

77 parts | **23 parts**

- **77 parts** — Part A – base
- **23 parts** — Part B – hardener

After mixing, let rest 2–3 min before application.

Conductivity
~10E5 Ω
Conductive floor with carbon nanotube technology.

Consumption
3.5 kg/m²
Average, for 2 mm dry thickness.

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

Important: use the complete conductive system – start with UNEPOX PRIMER CWB 2K conductive primer.

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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).
- Substrate free of hydrostatic pressure, moisture permeability, paint and hardening agents.

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, gloves and mask; wash after use.

Cleaning

- Clean all tools and equipment with tap water before the material gels.

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.