INDUSTRIAL FLOORS · EPOXY

Unepox 128-05 WS

Two-component solvent-free unfilled epoxy primer

APPEARANCE
Transparent
colourless · glossy film

1.09 g/cm³	100 %	1 h	6–8 h	3–4 m²/kg
Mixed density (20 °C)	Solids (by volume)	Pot life (20 °C)	Surface dry (20 °C)	at 200 µm

Product description

UNEPOX 128-05 WS is a two-component, solvent-free, unfilled epoxy-based primer. It forms a hard, glossy and smooth film that prevents water and oil penetration, and is used as primer / intermediate coat on concrete floors.

Application areas

- Chemical and pharmaceutical industries
- Food and beverage industries
- Laboratories and hospitals
- Facilities where floor dusting affects production, e.g. textiles
- Primer / intermediate coat on concrete terraces and roofs

Advantages

- Easy to apply
- Contains no fillers or pigments
- Easy to clean, does not harbour bacteria
- Forms a hard film
- Glossy film – stops water and oil penetration
- Dust-free, harmless to health

Position in the system

Floor coating
Epoxy or polyurethane floor system

Primer / intermediate coat — THIS PRODUCT
UNEPOX 128-05 WS · 3–4 m²/kg

Substrate
Concrete C25 / min. 350 dose, ≥ 21 days

Industrial floor systems

Primer for epoxy and PU floor coatings

Also used as primer in the L'unicflex PU 941 industrial systems.

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Technical data (at +20 °C)

Component A	**Epoxy resin**	Surface dry (20 °C)	**6–8 h**
Component B	**Epoxy hardener**	Full dry (20 °C)	**24 h**
Colour	**Transparent, colourless**	Full curing	**7 days**
Mixed density (20 °C)	**1.09 g/cm³**	Intercoat interval (20 °C)	**14–16 h**
Solids (by volume)	**100 %**	Before topcoats	**min. 24 h – max. 48 h**
Substrate / ambient temp.	**+15 °C to +35 °C**	Mixing ratio (by weight)	**100 A : 50 B**
Pot life (20 °C)	**1 h**	Shelf life	**12 months**

Chemical & thermal resistance

Diluted acids · Diluted & concentrated alkalis · Cleaning detergents · Disinfectants · Vegetable, mineral & animal oils · Fresh & sea water · Diesel & gasoline · Alcohol · Many other solvents · Wet up to 50 °C · Dry up to 130 °C

Application procedure

01

Surface preparation

New concrete C25 / min. 350 dose, cured ≥ 21 days; pull-off ≥ 1.5 N/mm², ≥ 3 °C above dew point. Remove loose particles by blasting, scraping or brushing; degrease; roughen very smooth surfaces.

02

Mixing

Materials at min. +15 °C. Mix A at 300–400 rpm, add B and keep mixing, reaching walls and bottom. Transfer to a clean container and mix 2–3 min more.

03

Application

Apply by brush or roller in one or more coats until a homogeneous glossy film remains after drying.

04

Recoating

14–16 h between coats at 20 °C; topcoats after min. 24 h, max. 48 h.

Mixing ratio (by weight)

100 parts | **50 parts**

- **100 parts** — Component A – epoxy resin
- **50 parts** — Component B – hardener

Supplied as ready-to-use 20 kg sets (13.4 kg A + 6.6 kg B). Never add thinners or solvents.

Application conditions
+15 °C – +35 °C
Never apply above +35 °C or below +10 °C, or in rain and wind. RH max. 75 %.

Consumption
3–4 m²/kg
Theoretical at 200 µm; varies with surface roughness and the selected system.

Pot life
1 h
At +20 °C. Do not prepare more than can be applied within the pot life.

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Important: protect the finished coating from water contact for at least 24 hours. Immediate water contact causes carbonation and a sticky film that must be removed and re-applied.

Points to consider

- Bring materials to site 1–2 days before use to adapt to ambient conditions; in cold weather bring substrate, material and air to application conditions.
- Low temperatures increase viscosity and slow the reaction; high temperatures shorten pot life.
- Sudden temperature drops can cause a matt, stained surface – with large day/night differences start and finish early.
- Two-component epoxy / PU products must be applied by professional, experienced teams.
- Mix with a mechanical mixer (300–400 rpm, epoxy-PU paddle) and transfer to a clean container – unmixed A or B will not cure.
- Joints must be designed by the engineers with regard to possible expansion and movement.

Packaging

- 20 kg set: 13.4 kg component A + 6.6 kg component B

Storage

- Store unopened, sealed packs in cool, dry areas, protected from frost.
- Shelf life: 12 months at +15…+25 °C.
- Opened packs: use within 2 weeks after thorough mixing.

Safety

- Wear workwear, goggles, mask and gloves – hardeners are irritating.
- On contact wash with plenty of soap and water – not with solvent.
- Apply in well-ventilated areas; keep away from food and drink.
- See the Safety Data Sheet.

Cleaning

- Clean tools before the material dries with UP-002 Thinner.
- Cured material can only be removed mechanically (scraping, grinding).

LEGAL NOTE

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