L'UNICFLOOR · TANK & FOOD-CONTACT EPOXY

# Unepox HB 2609 2K

High-build solvent-free phenolic epoxy for potable-water tanks

COLOUR
**RAL colours**
selected RAL shades

| 1.43 g/cm³ | 100 % | 10–25 min | 6–8 h | FDA |
|---|---|---|---|---|
| Mass density (20 °C) | Solids (by volume) | Pot life, 25 kg (20 °C) | Touch dry (20 °C) | 21 CFR 175.300 |

## Product description

**UNEPOX HB 2609 2K** is a two-component, phenolic epoxy, polyamine-cured, solvent-free high-build coating for potable and drinking water tanks. Properly and completely cured, it complies with FDA 21 CFR 175.300 for food-contact applications.

## Primary uses

- Potable and drinking water tanks
- Tank coating for crude oil and petroleum products
- Hospitals and laboratories
- Chemical storage, bottling plants, forklift areas
- Topcoat in concrete systems

## Advantages

- FDA 21 CFR 175.300 compliant when fully cured
- Phenolic epoxy – good chemical resistance
- Short curing, good low-temperature cure
- Good levelling, seamless
- Antibacterial and antistatic
- Easy to clean
- Good abrasion resistance

## Position in the system

**Epoxy topcoat** — THIS PRODUCT
UNEPOX HB 2609 2K · phenolic epoxy · 4 m²/kg

**Primer**
Epoxy concrete primer (e.g. UNEPOX PRIMER 2K)

**Substrate**
Concrete – min. 28 days old

## L'unicfloor tank lining

Potable-water and product tanks

**FDA 21 CFR 175.300**
Resinous & polymeric coatings · food contact

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## Technical data (at +20 °C)

| | |
|---|---|
| Component A | **Phenolic epoxy resin** |
| Component B | **Epoxy hardener** |
| Colour | **Selected RAL colours** |
| Mass density (20 °C) | **1.43 g/cm³** |
| Solids (by volume) | **100 %** |
| Surface & room temperature | **+10 °C to +30 °C** |
| Pot life, 25 kg (20 °C) | **10–25 min** |

| | |
|---|---|
| Touch dry (20 °C) | **6–8 h** |
| Overcoating interval (20 °C) | **24 h (max. 48 h)** |
| Full cure | **7 days** |
| Mixing ratio (by weight) | **80 A : 20 B** |
| Consumption | **approx. 4 m²/kg** |
| Shelf life | **12 months** |

## Chemical resistance

Diluted acids · Cleaning detergents · Herbal, animal & mineral oils · Diesel fuel & gasoline · Many solvents

## Application procedure

**01**

### Surface preparation

Clean surface free of grease, dust and contamination; new concrete min. 28 days old. Apply an epoxy concrete primer first for good adhesion.

**02**

### Mixing

Stir component A, add component B (80 : 20 by weight) and mix for 3 min with a low-speed electric mixer (200–300 rpm). Do not thin.

**03**

### Application

Apply with a roller. Consult Unica technical service regarding thickness and consumption.

**04**

### Recoating

Wait min. 24 h / max. 48 h between layers; after 48 h sand for adhesion. Protect from water for the first 24 h.

## Mixing ratio (by weight)

**80 parts** | **20 parts**

- **80 parts** — Component A – phenolic epoxy resin
- **20 parts** — Component B – epoxy hardener

Supplied as 16 kg A + 4 kg B. Do not thin.

**Application conditions**
**+10 °C – +30 °C**
Surface and room temperature; RH max. 75 %; mixed material above +15 °C.

**Consumption**
**4 m²/kg**
Estimated – consult Unica technical service for thickness and consumption.

**Pot life**
**10–25 min**
For a 25 kg mix at +20 °C.

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**Important:** FDA 21 CFR 175.300 compliance applies only when the coating is properly and completely cured. Protect from water for the first 24 hours.

## Points to consider

- New concrete must be at least 28 days old; the surface must be free of grease, dust and contamination.
- Low temperatures cause levelling and bubble problems; high temperatures shorten the drying time.
- Relative humidity max. 75 %; the mixed material must be above +15 °C.
- Wait min. 24 h / max. 48 h between layers – after 48 h sand the surface for good adhesion.

## Packaging

- 16 kg component A + 4 kg component B in metal cans

## Storage

- Store in sealed containers indoors in dry premises at +14…+35 °C.
- Shelf life: 12 months from production in a cool, dry place.

## Safety

- Not hazardous; contains no formaldehyde, asbestos, mercury, lead, chromate or derivatives.
- See the Material Safety Data Sheet (MSDS).

## Cleaning

- Clean all tools and equipment with UP-002 Thinner before the end of the pot life.

LEGAL NOTE

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved construction practices. UNICA does not make, nor does it authorise any agent or representative to make, any warranty, express or implied, concerning this material, as workmanship, weather, construction, equipment utilised and other variables affecting results are all beyond our control. UNICA warrants only that the material conforms to product specifications, and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNICA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNICA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

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