L'UNICFLOOR · EPOXY PRIMERS & UNDERCOATS

Unepox Undercoat HB 2K

Solvent-based high-build epoxy tie coat

COLOUR
RAL 7001
special colours on request

1.52 g/cm³	73 %	1360 cP	2–4 h	0.130 kg/m²
Mass density (mixed)	Solids (by weight)	Viscosity	Touch dry	per coat · 40 µm DFT

Product description

UNEPOX UNDERCOAT HB 2K is a high-filler, solvent-containing, polyamide-cured epoxy paint. It is used either to protect intermediate layers from chemical and mechanical influences or as an intermediate layer for subsequent coatings.

Application areas

- Refineries and petrochemical facilities
- Wastewater treatment plants
- Pharmaceutical industry and hospitals
- Food facilities; prevention of floor dusting
- Intermediate layer for corrosion protection of all metal components and fittings

Advantages

- High chemical and mechanical durability
- Roller, brush or spray
- Bacteria-resistant
- Excellent substrate adhesion
- Easy to mix
- Forms a matt, hard film
- Non-toxic when cured

Position in the system

Topcoat
L'unicfloor epoxy topcoat

Tie coat / undercoat — THIS PRODUCT
UNEPOX UNDERCOAT HB 2K · 0.130 kg/m² per coat

Primer
Concrete primer · UNEPOX ZP / ZRP / ZC PRIMER · UNEPOX WP

Substrate
Concrete · cement plaster · steel · aluminium · galvanised

L'unicfloor protective systems

High-build tie coat for concrete and metal

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Technical data (at +20 °C)

Colour	**RAL 7001**
Mass density (mixed, 20 °C)	**1.52 g/cm³**
Solids (by weight)	**73 %**
Viscosity	**1360 cP**
Touch dry	**2–4 h**
Interval time	**min. 16 h – max. 48 h**
Full dry	**16–24 h**

Full cure	**7 days**
Gel time	**6–8 h**
Consumption	**0.130 kg/m² at 40 µm DFT (1 coat)**
Mixing ratio	**5 A : 1 B**
Application temperature	**+14 °C to +35 °C**
Shelf life	**12 months**

Application procedure

01

Concrete

New concrete and plaster cured ≥ 21 days. Remove mortar, old paint, dirt and grease; neutralise with 3–4 % hydrochloric or acetic acid if needed, rinse and dry; then prime.

02

Metal

Blast or clean steel to SIS 055900 Sa 2½ / St 3 and prime within 4 h: UNEPOX ZP or ZRP 2K (immersed), ZC PRIMER 2K (not immersed); UNEPOX WP on aluminium / galvanised.

03

Mixing

Mix 5 parts component A with 1 part component B. Thin with **UP-002 Thinner** if necessary.

04

Application

Apply on the primed surface by roller, brush or spray gun – 0.130 kg/m² per coat.

Mixing ratio

5 parts | **1 part**

- **5 parts** — Component A
- **1 part** — Component B

Supplied as 16.7 kg base + 3.3 kg hardener in tin containers.

Application conditions
+14 °C – +35 °C
Do not apply below +14 °C or above +35 °C.

Consumption
0.130 kg/m²
Per coat at 40 µm DFT – depends on surface permeability and porosity.

Interval time
16–48 h
Min. 16 h, max. 48 h before the next coat.

Important: consumption rates may vary with surface porosity, ambient temperature and application technique.

Packaging

- 16.7 kg base + 3.3 kg hardener in tin containers

Storage

- Store unopened in original packaging in closed, dry areas at +15…+35 °C.
- Shelf life: 12 months from production.
- Do not expose to sun outdoors; protect from frost.

Safety

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

Cleaning

- Clean equipment with UP-002 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.