WATERPROOFING · ALIPHATIC POLYURETHANE

UNIPU 2000

One-component aliphatic polyurethane liquid waterproofing membrane

1.37–1.42 g/cm³	2500–3000 mPa·s	≥ 500 %	≥ 2.5 N/mm²	1.5–1.8 kg/m²
Density	Viscosity (23 °C)	Elongation at break	Adhesion to concrete	Min. total consumption

Product description

UNIPU 2000 is a one-component, aliphatic, polyurethane-based liquid waterproofing material. Easy to apply and economical, it bonds strongly to all kinds of surfaces and forms a highly elastic film. Its pure elastomeric, hydrophobic polyurethane resin gives excellent UV, chemical, mechanical and thermal resistance.

Application areas

- Gypsum and cement boards; under tiles
- Bathrooms and roofs
- Light roofs of metal or fibre cement
- Asphalt membranes
- Main waterproofing membrane in car parks
- Stadium stands
- Areas requiring UV resistance

Advantages

- Excellent mechanical properties
- Effective chemical resistance
- Non-toxic when cured
- Breathable – no moisture build-up under the film
- Never softens – max. service 90 °C, shock 200 °C
- Stays elastic down to -40 °C
- Damaged areas are quickly and easily repaired
- UV resistant – aliphatic

Position in the system

Waterproofing membrane — THIS PRODUCT
UNIPU 2000 · min. 2 coats · 1.5–1.8 kg/m²

Primer (absorbent surfaces)
UNIPU PRIMER 540

Substrate
Concrete ≥ 25 N/mm² · boards · metal · asphalt

Liquid-applied waterproofing

UV-stable aliphatic one-component PU membrane

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

Viscosity (23 °C)	**2500–3000 mPa·s (DIN EN ISO 3219)**	Elongation at break	**≥ 500 %**
Density	**1.37–1.42 g/cm³ (DIN EN ISO 2811)**	Drying time	**6–8 h**
Hardness	**Shore A 65**	Recoat interval	**12–24 h**
Water-vapour transmission	**0.8 g/m²·h**	Full cure	**7 days**
Adhesion to concrete	**≥ 2.5 N/mm²**	Service temperature	**-40 °C to +90 °C**
Tensile strength (+23 °C)	**> 5 N/mm²**	Shelf life	**12 months**

Application procedure

01

Surface preparation

Sound substrate: compressive strength 25 N/mm², pull-off ≥ 1.5 N/mm². Remove loose concrete, oil, paint and laitance; roughen and vacuum completely – dust in pores causes pinholes.

02

Priming

After substrate analysis, prime absorbent surfaces with **UNIPU PRIMER 540**.

03

Application

Apply by roller or brush in at least two coats of 0.75–0.9 kg/m² each.

04

Recoating

Wait 6–24 h between coats. Full cure after 7 days.

Consumption
1.5–1.8 kg/m²
Minimum total – 0.75–0.9 kg/m² per coat, 2 coats.

Number of coats
min. 2 coats
By roller or brush, 6–24 h between coats.

Service temperature
-40 … +90 °C
Remains elastic at -40 °C; max. shock temperature 200 °C.

Important: dust left in surface pores impairs performance and causes pinholes – vacuum the prepared surface thoroughly before priming.

Packaging

- 5, 20 or 25 kg on request

Storage

- Store in original closed containers in dry conditions at +5…+25 °C.
- Do not expose packs to direct sunlight.
- Shelf life: 12 months under these conditions.

Safety

- Non-toxic when cured.
- Wear suitable protective equipment.
- See the Safety Data Sheet.

Cleaning

- Clean reusable tools before curing with suitable solvents (e.g. butyl or ethyl acetate).
- Never use water or alcoholic solvents on uncured material.

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