l'unicflex™ | PRIMERS · POLYURETHANE

PU 100 1K

Moisture-curing one-component PU surface primer and moisture barrier

APPEARANCE
Clear
no fillers, no pigments

1.13 g/cm³	400 mPas	100 %	30–40 min	130–150 g/m²
Density (25 °C)	Viscosity (25 °C)	Solids (by weight)	Drying time	Consumption (1 layer)

Product description

PU 100 1K is a moisture-curing, reactive, one-component polyurethane surface primer. It is used as an adhesion primer and dust inhibitor on concrete or asphalt under PU and acrylic coating systems, and as a moisture barrier before screed mixtures.

Usage areas

- Adhesion primer and dust inhibitor under PU and acrylic floor coatings
- Moisture barrier on floors before screed application
- Protective topcoat for concrete screed, terrazzo, wood and artificial stone against chemicals, abrasion and dust
- Reinforcement of weak substrates by penetrating into concrete – indoors and outdoors

Advantages

- Contains no fillers or pigments
- Flexible
- Low viscosity – penetrates capillaries
- Effective against negative pressure
- No volatile organic structures
- Easy to apply with roller and brush
- Fast service time

Position in the system

Coating system
L'unicflex PU or acrylic floor coatings

Primer / moisture barrier — THIS PRODUCT
PU 100 1K · 130–150 g/m²

Substrate
Concrete or asphalt (min. 21 days)

Universal primer

For PU and acrylic floor coating systems

For moisture barrier use, a minimum thickness of 100 µm is recommended (80–150 g/m²).

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

Density (25 °C)	**1.13 g/cm³**	Application temperature	**min. +10 °C**
Viscosity (25 °C)	**400 mPas**	Application rel. humidity	**40–90 %**
Solids (by weight)	**100 %**	Pot life (20 °C)	**3–4 h**
Pull-off adhesion	**3.6 MPa**	Interval between layers	**3–4 h (topcoat: min. 24 h)**
Drying time	**30–40 min**	Curing time (20 °C)	**7 days**
Consumption (1 layer)	**130–150 g/m²**	Shelf life	**6 months (unopened)**

Application procedure

01

Surface preparation

New concrete must cure for at least 21 days. Remove laitance, old paint, oil and dust; neutralise if required. Roughen dense, shiny surfaces. The floor must be completely dry.

02

Application

Ready to use. Apply with brush, roller or squeegee in a homogeneous, smooth layer on clean, dry surfaces.

03

Next layer

Recoat after 3–4 h at 20 °C; wait at least 24 h before the topcoat. Final strength develops after 2 days.

Application conditions
min. +10 °C
Ambient and surface temperature; relative humidity 40–90 %.

Consumption
130–150 g/m²
Per layer. As moisture barrier: min. 100 µm, 80–150 g/m².

Pot life
3–4 h
At +20 °C. Higher temperature and humidity accelerate drying.

Important: the cured film must not be exposed to chemical or mechanical loads during the 7-day curing period.

Packaging

- 10 kg and 20 kg original tin packaging

Storage

- Store unopened, protected from moisture, water and sunlight.
- Shelf life: 6 months in unopened packaging.
- Use opened packs as soon as possible.

Safety

- Irritating in contact with skin; harmful if inhaled.
- Wear protective clothing, goggles, mask and gloves.
- On contact, rinse with plenty of water for at least 15 min; seek medical advice if necessary.
- Non-hazardous when cured. See the SDS.

Cleaning

- Ready to use – do not thin.
- Use UP-005 Thinner for cleaning tools only.

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