unica

l'unicflex™ | PRIMERS · POLYURETHANE

UNIPU 045 1K

Moisture-curing one-component PU primer for concrete surfaces

0.88 g/cm³	47 %	12 s	9 h	0.150–0.200 kg/m²
Density (23 °C)	Solids content	Viscosity (Ford cup 4)	Recoating time (23 °C)	Consumption

Product description

UNIPU 045 1K is a solvent-based, one-component, moisture-curing polyurethane primer for concrete surfaces. It is used as an adhesion primer on concrete sports flooring sub-bases under PU coatings such as **UNIPU 901 2K** or rubber mats.

Principal characteristics

- Good adhesion to smooth surfaces
- Low viscosity – fills surface capillaries
- Reacts with humidity and cures fast
- Resistant to alkalis, weak acids, mineral oils, fuels and lubricants

Advantages

- Ready to use – no thinning
- Easy to apply
- Fast curing
- Excellent mechanical strength

Position in the system

Line marking
UNIPU OVERLINE 2K

UV topcoat (optional)
PU TOPCOAT WB 1K · 0.30 kg/m²

EPDM granules
Coloured EPDM 1–3.5 mm broadcast

Elastic layer
UNIPU 901 2K · 2.2 kg/m²

Pore filler
PU 901 SEALER 2K · 1.3 kg/m²

SBR base layer
SBR 1–4 mm + UNIPU 030 1K · approx. 10 mm

Primer — THIS PRODUCT
UNIPU 045 1K · 0.150–0.200 kg/m²

Substrate
Concrete / asphalt (min. 30 days, moisture ≤ 3 %)

L'unicflex systems

Primer for all outdoor and indoor PU sports systems

Used in L'unicflex MULTI, PRO, INDOOR, SPRAY COAT and 2S. It can also be used in other systems and applications.

Technical data (at +20 °C)

Density (23 °C)	**0.88 g/cm³**	Recoating time 23 °C	**9 h**
Solids content	**47 %**	Recoating time 30 °C	**5 h**
Viscosity (Ford cup 4, 23 °C)	**12 s**	Surface / application temp.	**+10 °C to +40 °C**
NCO content	**8 %**	Applicable rel. humidity	**40–90 %**
Recoating time 10 °C	**12 h**	Consumption	**0.150–0.200 kg/m²**

Application procedure

01

Surface preparation

The substrate must be firm, dry and load-bearing, free of oil, grease, dust and paint. Bond strength min. 1.0 N/mm²; shot-blast or grind if needed. Moisture max. 4 %, surface min. 3 °C above dew point.

02

Application

Ready to use – apply immediately by roller, brush or low-pressure airless. Apply thin, uniform coats: too thick films may foam.

03

Next layer

Lower temperatures slow the reaction and extend recoating time (12 h at 10 °C, 9 h at 23 °C, 5 h at 30 °C).

Application conditions

+10 °C – +40 °C

Surface and application temperature; relative humidity 40–90 %.

Consumption

0.150–0.200 kg/m²

Apply in thin, uniform coats to avoid foaming.

Important: do not dilute with solvent. Do not use alcoholic solvents or water for cleaning.

Packaging

- 180 kg steel drums
- 20 kg cans

Storage

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

Safety

- Non-hazardous in cured condition.
- For protective measures, transport and waste management, see the SDS.

Cleaning

- Clean re-usable tools with UP-008 Thinner.
- Do not use alcoholic solvents or water.

LEGAL NOTE

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