l'unicflex™ | ATHLETICS TRACKS · POLYURETHANE

UNIPU Spray Coat 2K

Two-component elastic PUR spray coating for granular sports surfaces

COLOURS
Red · Green · Blue
custom colours on request

1.35 g/cm³	1650 mPas	45 min	< 19 h	1.8–1.9 kg/m²
Mixed density (23 °C)	Mixed viscosity	Pot life (23 °C)	Service time	Consumption incl. EPDM

Product description

UNIPU SPRAY COAT 2K is an elastic coating for the installation of seamless PUR or sandwich sports surface systems on athletics tracks, courts, multi-purpose sports facilities, school playgrounds and indoor game courts. It can also be used for re-coating old PU surfaces. It is the wearing layer of the **L'UNICFLEX SP** spray-coated athletics system.

Principal characteristics

- Spray-applied structured wearing layer with EPDM
- Applied without primer on in-situ or prefabricated SBR
- Suitable for re-coating existing PU surfaces

Advantages

- Long mixing life
- Excellent curing
- Excellent moisture resistance during curing
- Superior durability
- High abrasion resistance
- Stable flexibility after curing
- Easy application

Position in the system

Line marking
UNIPU OVERLINE 2K

Spray coating — THIS PRODUCT
UNIPU SPRAY COAT 2K + EPDM · 1.2 kg/m²

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

Primer
UNIPU 045 1K (concrete) · UNIPU 060 1K (asphalt)

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

L'unicflex SP

PU spray-coated athletics track system

EN 14808 · EN 14809 · EN 13036-4
Athletics surfaces · test report available

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System performance · DIN 18035-6

Results of the L'unicflex SP spray-coated athletics system (SBR base + **UNIPU SPRAY COAT 2K** + EPDM), tested in our laboratories.

38 %	1.2 mm	0.67 N/mm²	69 %	78
Force reduction	Vertical deformation	Tensile strength	Elongation at break	Slip resistance (wet)

Water permeability: impermeable · Flammability: DIN 51960 Class 1. Athletics test report available upon request.

Technical data (at +20 °C)

Density A / B	**1.37 / 1.23 g/cm³**	Elongation (DIN 53594)	**90 %**
Mixed density (23 °C)	**1.35 g/cm³**	Tear strength (DIN 53515)	**3.5 N/mm**
Viscosity A / B	**2400 / 200 mPas**	Application temperature	**+10 °C to +40 °C**
Mixed viscosity	**1650 mPas**	Rel. humidity	**max. 90 %**
Pot life 12 / 23 / 30 °C	**60 / 45 / 38 min**	Service time	**< 19 h**
Shore A (24 h / 8 days)	**40 / 60**	Consumption incl. EPDM	**1.8–1.9 kg/m²**
Tensile strength (DIN 53504)	**2.0 N/mm²**	Shelf life	**6 months**

Application procedure

01

Surface preparation

Sound, dry, load-bearing surface free of oil, grease and contaminants. No primer on SBR; prime concrete with **UNIPU 045 1K** before SBR. Existing surfaces: adhesion test, sanding and **UNIPU 060 1K** (0.200 kg/m²).

02

Mixing

Mix component A, weigh A and B, mix at approx. 300 rpm for at least 2 min, transfer and mix 1 more minute. Components at +15…+25 °C.

03

EPDM blend

Add 0.5–1.5 mm EPDM (spray blend : EPDM = 100 : 50) and 2 % EPDM powder. For better spraying up to 5 % UP-008 thinner may be added.

04

Application

Apply with a spray machine onto the SBR base to the required structure.

Mixing ratio (by weight)

82.5 parts	17.5 parts

- **82.5 parts** — Component A (coloured)
- **17.5 parts** — Component B – hardener

Spray blend : EPDM 0.5–1.5 mm = 100 : 50, plus 2 % EPDM powder.

Application conditions
+10 °C – +40 °C
Relative humidity max. 90 %. Avoid extreme heat, rain and wind.

Consumption
1.8–1.9 kg/m²
Theoretical, EPDM included.

Pot life
45 min
At +23 °C (60 min at 12 °C, 38 min at 30 °C).

Important: protect the finished coating from water contact for at least 24 hours. Immediate water contact causes a sticky film that must be removed and re-applied.

Points to consider

- Bring materials to site 1–2 days before use; in cold weather heat the area and condition packs at +20/+25 °C.
- Transfer the mix to a clean container – unmixed A or B components will not cure.
- Low temperatures extend pot life and curing times and increase consumption; high temperatures shorten them.
- Where day/night temperature differences are extreme, start early and finish on the same day.
- Two-component PU systems must be applied by professional, experienced teams.

Packaging

- 220 kg metal drum A + 220 kg metal drum B

Storage

- Store unopened, sealed packs in cool, dry areas.
- Protect from freezing.
- Shelf life: 6 months from production at +15…+25 °C.
- Opened packs: use within 2 weeks after thorough mixing.

Safety

- Not classified as hazardous; contains no formaldehyde, asbestos or mercury.
- Contains flame-retardant additives.
- Wear workwear, goggles, mask and gloves – the hardener can be irritating.
- Apply in well-ventilated areas. See the Safety Data Sheet (SDS).

Cleaning

- Clean tools before the material dries with UP-002 Thinner.
- Cured material can only be removed mechanically (scraping, grinding).

LEGAL NOTE

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