l'unicflex™ | ATHLETICS TRACKS · POLYURETHANE

UNIPU Sealer 2K

Elastic polyurethane pore-filling coating for poured SBR floors

COLOURS
Oxide red · Blue
thixotropic pore filler

1.27 g/cm³	99 %	20–25 min	4–5 h	1.3–1.5 kg/m²
Mixed density (20 °C)	Solids (by weight)	Pot life (20 °C)	Touch dry (20 °C)	Consumption

Product description

UNIPU SEALER 2K is an elastic, two-component, thixotropic, solvent-free polyurethane coating for levelling and sealing the pores of poured SBR surfaces in tartan athletics tracks and similar sports systems. It is the pore-filling layer of the **L'UNICFLEX MULTI** athletics system.

Uses

- Pore sealing of poured SBR athletics tracks
- Full polyurethane sports systems
- Multi-purpose SBR and EPDM surfaces
- Basketball, volleyball and handball surfaces, fitness floors
- School indoor play areas and game rooms
- Repair and renovation of existing PU sports floors

Advantages

- Solvent-free
- High elasticity, durability and tear resistance
- High moisture resistance, optimum curing time
- Can be applied in all weather conditions
- Designed for outdoor durability
- Easy to apply

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** — UNIPU SEALER 2K · 1.3 kg/m² — THIS PRODUCT
- **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 MULTI

PU sandwich system for athletics tracks

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

Also part of the L'unicflex PRO full-PU athletics track system.

unica | Boytem
BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
Factory: Gümüşova OSB 1. Sk. No:4 İç Kapı No:1 Gümüşova / Düzce – TÜRKİYE
T +90 216 304 03 05 · F +90 216 304 12 15
unicaboya.com · info@unicaboya.com

System performance · DIN 18035-6

Results of the L'unicflex MULTI sandwich athletics system (SBR base + **PU 901 SEALER 2K** + **UNIPU 901 2K** + EPDM), documented by accredited laboratories in England.

38 %	2.2 mm	0.59 N/mm²	66 %	77
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)

Component A	**PU resin (coloured)**	Touch dry (20 °C)	**4–5 h**
Component B	**Hardener**	Full dry (20 °C)	**24 h**
Colour	**Oxide red, blue**	Full cure	**7 days**
Mixed density (20 °C)	**1.27 g/cm³**	Elongation	**61 %**
Solids (by weight)	**99 %**	Shore hardness (28 days)	**A 80 · D 48**
Application temperature	**+10 °C to +30 °C**	Consumption	**1.3–1.5 kg/m²**
Pot life (20 °C)	**20–25 min**	Recoat interval	**min. 16 h – max. 24 h**

Chemical resistance

Diluted acids · Diluted & concentrated alkalis · Cleaning detergents · Disinfectants · Vegetable, mineral & animal oils · Fresh & salt water · Diesel & gasoline · Alcohol · Many other solvents

Application procedure

01

Surface preparation

Apply after the SBR layer is complete – no primer needed. The surface must be dry, clean and free of dust and oil.

02

Mixing

Condition kits to +15…+25 °C. Mix component A 3–4 min at 300–400 rpm, add B, transfer to a clean container, mix 1–2 min and rest 1–2 min.

03

Application

Fill the pores with a flat steel trowel to the desired thickness.

04

Recoating

Recoat within min. 16 h – max. 24 h. If exceeded, sand the surface for good adhesion.

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Mixing ratio (by weight)



90 parts
Component A – PU resin (coloured)

10 parts
Component B – hardener

Supplied as ready-to-use kits (18 kg A + 2 kg B). Never add thinners.

Application conditions
+10 °C – +30 °C
Ambient and surface temperature. Avoid extreme heat, rain and wind.

Consumption
1.3–1.5 kg/m²
Depending on thickness and floor conditions. Varies with the selected system.

Pot life
20–25 min
At +20 °C. Do not prepare more material than can be applied within the pot life.

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.
- Use a mechanical mixer (300–400 rpm) with a PU mixing paddle – avoid hand mixing. Never add thinners.
- 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

- Kit: 18 kg A + 2 kg 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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