l'unicflex™ | ATHLETICS TRACKS · POLYURETHANE

UNIPU 901 2K

Self-levelling elastic PUR coating for granulated sports surfacing systems

COLOURS
Red · Green · Blue
pigmented system

1.55 g/cm³	2400 mPa·s	60 min	< 19 h	140 %
Mixed density (23 °C)	Mixed viscosity	Pot life (23 °C)	Ready for foot traffic	Elongation at break

Product description

UNIPU 901 2K is an elastic self-levelling coating for the installation of sports surfacing systems – solid PUR or sandwich systems – for athletics tracks, runways, multi-purpose sports facilities, school playgrounds and hall game courts. It can also be used for re-topping old PUR surfaces.

Principal characteristics

- Long pot life and excellent curing
- Very good moisture resistance during curing
- Outstanding durability and wear resistance
- Strength and elasticity once fully cured

Advantages

- Easy to apply in all conditions
- Applied directly on asphalt – no primer
- Broadcast with EPDM or recycled granules
- Suitable for re-topping old PUR surfaces

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 — THIS PRODUCT
UNIPU 901 2K · 2.2 kg/m² + EPDM broadcast

Pore filler
PU 901 SEALER 2K · 1.3 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 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.

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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)

Density A / B	**1.62 / 1.26 g/cm³**	Application temperature	**+10 °C to +40 °C**
Mixed density (23 °C)	**1.55 g/cm³**	Rel. humidity	**max. 90 %**
Viscosity A / B	**4900 / 450 mPa·s**	Shore A (24 h / 28 d)	**40 / 55–60**
Mixed viscosity	**2400 mPa·s**	Tensile strength (DIN 53504)	**2.0 N/mm²**
Pot life 12 / 23 / 30 °C	**80 / 60 / 45 min**	Elongation (DIN 53594)	**140 %**
Ready for foot traffic	**< 19 h (broadcast)**	Tear strength (DIN 53515)	**3.5 N/mm**
Removing excess granules	**after < 24 h**	Shelf life	**12 months**

Application procedure

01 Surface preparation

Firm, dry, load-bearing substrate. Asphalt: no primer. Concrete: **UNIPU 045 1K**; bond strength min. 1.0 N/mm², moisture max. 4 %. Layers older than 2 days: prime with **UNIPU 045/060 1K** (max. 0.100 kg/m²).

02 Mixing

Homogenise component A. Weigh A and B, mix at approx. 300 rpm for at least 2 min until streak-free, transfer to a second container and mix 1 more minute. Components at +15…+25 °C.

03 Application

Apply with a squeegee, scraper or notched trowel. Within 5–10 min broadcast excess EPDM or recycled granules (1–3 / 1–4 mm).

04 Finishing

Remove excess granules after curing (< 24 h) – they can be re-used. Protect from water for a few hours; do not apply if rain is expected.

Mixing ratio (by weight)

89 parts : 11 parts

- **89 parts** — Base (component A, coloured)
- **11 parts** — Hardener (component B)

Supplied as 17.8 kg A + 2.2 kg B. Mixed material temperature above +15 °C. Never add thinners.

Application conditions
+10 °C – +40 °C
Substrate and application temperature; relative humidity max. 90 %.

Consumption
approx. 2.2 kg/m²
In the L'unicflex MULTI system; approx. 3.0 kg/m² per layer in L'unicflex PRO.

Pot life
60 min
At +23 °C (80 min at 12 °C, 45 min at 30 °C). Direct sunlight shortens it considerably.

Important: as with all isocyanate systems, water may cause foaming – protect the fresh coating from water for a few hours and do not apply if rain is expected.

Packaging

- 17.8 kg can A + 2.2 kg can B

Storage

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

Safety

- Non-hazardous when cured.
- Contains no formaldehyde, asbestos, mercury, lead or chromate.
- See the Safety Data Sheet (SDS).

LEGAL NOTE

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved construction practices. UNICA does not make, nor does it authorise any agent or representative to make, any warranty, express or implied, concerning this material, as workmanship, weather, construction, equipment utilised and other variables affecting results are all beyond our control. UNICA warrants only that the material conforms to product specifications, and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNICA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNICA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

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