l'unicflex™ | ATHLETICS TRACKS · POLYURETHANE

PU Topcoat WB 1K

Water-based aliphatic PUD elastic topcoat

COLOUR
RAL colours
coloured or transparent · matt / semi-gloss

1.29 g/cm³	43 %	2 h	7 days	0.130 kg/m²
Mixed density (20 °C)	Solids content	Surface dry (20 °C)	Full curing	Consumption per layer

Product description

PU TOPCOAT WB 1K is an elastic, water-based aliphatic PUD topcoat – coloured or transparent, matt or semi-gloss. It protects and renews SBR and EPDM sports surfaces and is the optional UV-protective topcoat of the **L'UNICFLEX MULTI** and 2S systems.

Application areas

- Protective topcoat over poured, tiled or rolled SBR / EPDM surfaces
- Protective / renewing topcoat on EPDM textures of athletics tracks
- Economical, quick renewal of worn tile, SBR and EPDM surfaces
- Fitness and children's play area floors
- Elastic matt UV-resistant topcoat for tracks and walkways

Advantages

- High elasticity, tear and scratch resistance
- Excellent adhesion as final layer of L'unicflex Multi
- High UV resistance, aesthetic appearance
- Can be applied in all weather conditions
- Water-based – cleaned with water
- Available in desired RAL colours

Position in the system

Line marking
UNIPU OVERLINE 2K

UV topcoat (optional) — THIS PRODUCT
PU TOPCOAT WB 1K · 2 × 0.130 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
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
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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)

Colour	**RAL colours**	Curing time (20 °C)	**18 h**
Mixed density (20 °C)	**1.29 g/cm³**	Applicable rel. humidity	**40–90 %**
Solids content	**43 %**	Full curing time	**7 days**
Surface application temperature	**+10 °C to +40 °C**	Consumption	**0.130 kg/m² per layer**
Surface drying time (20 °C)	**2 h**	Shelf life	**9 months**

Application procedure

01 — Surface preparation
Apply once poured SBR / EPDM starts to cure – no primer. Surface solid, dry, free of rubber residues, oil and paint; renovations need an adhesion test. Min. 3 °C above dew point.

02 — Mixing
Ready to use. Mix with a mixer at 300 rpm for 2–3 min until homogeneous. If necessary dilute with 10–15 % tap water.

03 — Application
Apply two coats of 0.130 kg/m² by airless / air spray, optionally back-rolled with a short-pile velvet roller.

04 — Curing
Protect from direct water contact for the first 6 h; do not apply if rain is expected.

Application conditions
+15 °C – +35 °C
Ambient temperature; surface +10…+50 °C, humidity 40–90 %. No application in rain.

Consumption
0.130 kg/m²
Per layer, applied in 2 layers – depending on surface permeability and porosity.

Important: protect the finished coating from water for at least 24 hours. Sudden temperature drops can make the surface dull or stained – in large day/night differences start and finish early.

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Storage

- Store in original sealed packaging in dry conditions at +10…+35 °C.
- Protect from freezing.
- Shelf life: 9 months from production.

Safety

- Not classified as hazardous in cured state.
- Contains no formaldehyde, asbestos or mercury.
- See the Material Safety Data Sheet.

Cleaning

- Clean re-usable tools with tap water.
- Do not use alcohol-based or aromatic solvents.

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are intended to guide applicators. As workmanship, weather conditions, construction, equipment used and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations or changes in conditions in the substrate where its products are applied.