l'unicflex™ | INDOOR SPORTS FLOORS · POLYURETHANE

PU Flex Matt Topcoat 2K

Aliphatic elastomeric polyurethane matt topcoat

COLOURS
12 standard colours
RAL shades · special colours on request

1.42 g/cm³	57 %	6–8 h	2–4 h	0.130 kg/m²
Specific weight (approx.)	Solids (by weight)	Gel time	Touch dry	Consumption per coat

Product description

PU FLEX MATT TOPCOAT 2K is a low-viscosity, coloured, solvent-containing aliphatic elastomeric polyurethane matt topcoat. It is the UV-resistant final coat of the **L'UNICFLEX PU** indoor system, tested to **BS EN 14904:2006**, and is also used on athletics tracks and walking paths.

Application areas

- Elastomeric matt UV-resistant topcoat for fitness areas, children's play areas, basketball, volleyball and handball courts
- Topcoat for athletics tracks and walking paths
- Repair and renovation of existing PU-coated sports surfaces

Advantages

- High elasticity, durability and tear resistance
- Easy application thanks to long gel time
- Excellent adhesion as final coat of L'unicflex systems
- High UV resistance and aesthetic finish
- Can be applied in all weather conditions
- Resistant to water, sea water, diluted acids, mineral oils and fuels

Position in the system

Line marking
PU OVERLINE 2K

Matt topcoat — THIS PRODUCT
PU FLEX MATT TOPCOAT 2K · 2 × 0.130 kg/m²

Elastic layer
PU ELASTIC SL 2K · 2 × 1.2 kg/m²

Pore filler
PU SEALER 2K · approx. 0.70 kg/m²

Rubber base
SBR prefabricated roll, bonded with UNIPU 030 2K

Primer
UNEPOX PRIMER 2K · 0.15–0.25 kg/m²

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

L'unicflex PU indoor

Polyurethane indoor sports floor system

BS EN 14904:2006
Tested system · UK CST accredited laboratory

Also used in the L'unicflex PU GYM indoor and PU PG indoor systems.

unica | Boytem
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System performance · BS EN 14904:2006

Results of the L'unicflex PU indoor system (rubber base + **PU SEALER 2K** + 2 × **PU ELASTIC SL 2K** + matt topcoat), tested in a UK CST accredited laboratory.

31 %	1.9 mm	99 %	104	No damage
Shock absorption	Vertical deformation	Vertical ball rebound	Friction	Rolling load

The test report can be shared upon request.

Technical data (at +20 °C)

Specific weight (approx.)	**1.42 g/cm³**	Touch dry	**2–4 h**
Solids (by weight)	**57 %**	Full drying	**16–24 h**
Viscosity	**1300**	Full curing	**7 days**
Gel time	**6–8 h**	Surface temperature	**+10 °C to +50 °C**
Consumption	**0.130 kg/m² per coat (40 µm DFT)**	Shelf life	**6 months**
Intercoat waiting time	**24 h**		

Application procedure

01 — Surface preparation
Apply once **PU ELASTIC SL 2K** starts to cure – no primer. After 48 h apply **UNIPU 060 1K**; after 72 h abrade mechanically. Surface min. 3 °C above dew point.

02 — Mixing
At +15…+25 °C add component B to A and mix 2–3 min at 300 rpm, transfer to a clean container and mix 1 more minute.

03 — Application
Apply in two coats of 0.130 kg/m² each by airless / air-assisted gun or short-nap roller; re-roll quickly with a fresh roller to avoid marks.

04 — Curing
Protect from water for the first 12 h; do not apply if rain is expected. If necessary thin 10–15 % with **UP-002 Thinner**.

Mixing ratio (by weight)



- **3.750 kg** — Component A (coloured)
- **1.250 kg** — Component B – hardener

Also supplied as 16 kg A + 4 kg B kits.

Application conditions
+14 °C – +35 °C
Ambient temperature; surface temperature +10…+50 °C. No application in rain.

Consumption
0.130 kg/m²
Per coat at 40 µm DFT – applied in 2 coats; 0.20–0.25 kg/m² in the PU indoor system.

Gel time
6–8 h
Low temperature and humidity extend gel and curing time.

Important: protect from direct water contact for the first 12 hours to prevent foaming or cratering. High humidity and low temperatures indoors extend drying time.

Standard colours

RAL 2008 · RAL 6000 · RAL 3020 · RAL 6011 · RAL 6032

RAL 1013 · RAL 5012 · RAL 5015 · RAL 5024 · Oxide red

White · Black

RAL references; chips are indicative only. Special colours are available subject to laboratory approval, minimum quantities and lead times.

Packaging
- 3.750 kg A + 1.250 kg B
- 16 kg A + 4 kg B

Storage
- Store in original sealed packaging in dry conditions at +10…+35 °C.
- Protect from freezing.
- Shelf life: 6 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 UNIPU 002 / UP-002 Thinner.
- Do not use water- or alcohol-based cleaners.

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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