l'unicflex™ | INDOOR SPORTS FLOORS · POLYURETHANE

PU Elastic SL 2K

Self-levelling elastic polyurethane coating for indoor sports floors

COLOUR
RAL colours
available in selected shades

1.35 g/cm³	99 %	20–25 min	4–5 h	66 %
Mixed density (20 °C)	Solids (by weight)	Pot life (20 °C)	Touch dry (20 °C)	Elongation

Product description

PU ELASTIC SL 2K is a solvent-free, two-component, coloured self-levelling polyurethane coating designed for indoor sports floors. It forms the elastic wearing layer of the **L'UNICFLEX PU** indoor sports floor system, tested to **BS EN 14904:2006**.

Uses

- Basketball, volleyball and handball sports surfaces
- Fitness studio floors
- Full polyurethane sports systems
- Multi-purpose SBR and EPDM surfaces
- School indoor play areas and indoor game rooms
- Repair and renovation of existing polyurethane-coated sports floors

Advantages

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

Position in the system

Line marking
PU OVERLINE 2K

Matt topcoat
PU FLEX MATT TOPCOAT 2K · 0.20–0.25 kg/m²

Elastic layer — THIS PRODUCT
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

PU ELASTIC SL 2K is also the elastic layer of the L'unicflex PU GYM indoor and PU PG indoor systems.

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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)

Component A	**PU resin (coloured)**	Touch dry (20 °C)	**4–5 h**
Component B	**Hardener**	Full dry (20 °C)	**24 h**
Colour	**Selected RAL colours**	Full curing time	**7 days**
Mixed density (20 °C)	**1.35 g/cm³**	Elongation	**66 %**
Solids (by weight)	**99 %**	Shore hardness	**Shore A 82 · Shore D 33**
Application temperature	**+10 °C to +30 °C**	Recoat interval	**min. 16 h – max. 24 h**
Pot life (20 °C)	**20–25 min**	Shelf life	**6 months**

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 once **PU SEALER 2K** starts to cure – no primer needed. The surface must be dry, clean and free of dust and oil. If more than 48 h have passed since the sealer, apply **UNIPU 060 1K** first.

02 — Mixing

Condition kits to +15…+25 °C. Mix component A for 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

Spread with a notched trowel to the desired thickness, then de-aerate with a spiked roller. Apply in 2 layers rather than one thick layer.

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)

85 parts	15 parts

85 parts
Component A – PU resin (coloured)

15 parts
Component B – hardener

Supplied as ready-to-use kits (17 kg A + 3 kg B). Never add thinners.

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

Consumption
approx. 2.40 kg/m²
For 1.5–2 mm on impermeable, flat surfaces. 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 to adapt to ambient conditions; 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.
- 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 to avoid a matt, stained surface.
- Two-component PU systems must be applied by professional, experienced teams.
- For application over existing coatings, consult the Unica technical service.

Packaging

- Kit: 17 kg component A + 3 kg component 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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