unica

l'unicflex™ | INDUSTRIAL FLOORS · POLYURETHANE

PU 941 SL 2K

Self-levelling polyurethane floor coating – cleanroom certified

COLOUR
RAL colours
various shades

1.40 g/cm³	93 %	20–25 min	4–5 h	2.40–2.80 kg/m²
Mixed density (20 °C)	Solids (by weight)	Pot life (20 °C)	Touch dry (20 °C)	Consumption (1.5–2 mm)

Product description

PU 941 SL 2K is a rigid-flexible, two-component, coloured, solvent-free self-levelling polyurethane floor coating for industrial floors. Certified for cleanrooms and non-bacteria-harbouring, it is the self-levelling layer of the **L'UNICFLEX CR15** system.

Application areas

- Warehouses and laboratories
- Chemical and pharmaceutical industry
- Food facilities where hygiene affects production
- Shopping malls, supermarkets, school corridors and classrooms
- Exhibition and fair areas; renovation of PU-coated floors

Advantages

- Certified for cleanrooms
- Does not harbour bacteria
- Solvent-free
- High elasticity, durability and tear resistance
- High moisture resistance, optimum curing
- Easy to apply

Position in the system

Self-levelling layer — THIS PRODUCT
PU 941 SL 2K · 2.2 kg/m²

Primer
UNEPOX 128-05 SF 2K · 0.30 kg/m²

Substrate
Concrete (25 N/mm², 75 % RH acc. to BS 8204)

L'unicflex CR15

Cleanroom certified PU self-levelling system

Cleanroom certified
Hygienic · antibacterial · dust-free

Approx. 1.5 mm total thickness. Suitable for hospitals, food industry, cold storage and wet areas.

unica | Boytem
BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
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Technical data (at +20 °C)

Component A	**Polyurethane resin**	Pot life (20 °C)	**20–25 min**
Component B	**MDI hardener**	Touch dry (20 °C)	**4–5 h**
Colour	**Various RAL colours**	Full drying time (20 °C)	**24 h**
Mixed density (20 °C)	**1.40 g/cm³**	Full cure	**7 days**
Solids (by weight)	**93 %**	Intercoat interval	**min. 16 h – max. 24 h**
Floor / ambient temperature	**+10 °C to +30 °C**	Shelf life	**12 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 after **AQ PRIMER 2K** or **UNEPOX 128-05** primer has cured. The surface must be dry, clean and free of dust, oil and adhesion-reducing substances.

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

Spread with a notched trowel to the desired thickness, then de-aerate with a spike roller.

04

Intercoat interval

Min. 16 h – max. 24 h. If exceeded, sand the floor for good adhesion.

Mixing ratio (by weight)



- **77 parts** — Component A – PU resin (coloured)
- **23 parts** — Component B – MDI hardener

Supplied as kits of 15.4 kg A + 4.6 kg B.

Application conditions
+10 °C – +30 °C
Floor and ambient temperature; optimum +10…+32 °C for curing.

Consumption
2.40–2.80 kg/m²
For 1.5–2 mm on impermeable, flat surfaces; approx. 2.2 kg/m² in the CR15 system.

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

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Important: for an aesthetic finish, Unica recommends PU WB CLEAR COAT 2K in matt or semi-matt.

Points to consider

- Optimum application / curing temperature +10…+32 °C; max. relative humidity approx. 85 %.
- Substrate temperature at least 3 °C above dew point; concrete moisture < 6 % by weight.
- Concrete must be 21–28 days old, dry and free of dust, oil and residues; repair holes and cracks first.
- If rain is expected, do not proceed within 10–16 h. Test adhesion over existing coatings.
- Mix with a low-speed electric mixer – no hand mixing; add no solvents not recommended by Unica.
- Clean spills of vehicle fluids (hydraulic oil, gasoline, antifreeze) immediately.

Packaging

- Kit: 15.4 kg component A + 4.6 kg component B

Storage

- Store in tightly closed containers in dry areas at +15…+35 °C.
- If stored at approx. +5 °C, bring to at least +10 °C before use – no direct heat.
- Shelf life: 12 months from production.
- Use material from one batch per job; mix different batches together.

Safety

- Not classified as hazardous; contains no mercury, asbestos, formaldehyde or lead.
- Use suitable equipment and personal protective gear.
- Do not expose to direct heat or below +5 °C for long periods.
- See the Material Safety Data Sheet.

Cleaning

- Clean equipment immediately with UP-002 special diluent.
- Cured material: manual cleaning only. Wash hands with mild soap and water.
- Maintenance: UNICA SFC Cleaner.

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.