l'unicflex™ | INDUSTRIAL FLOORS · POLYURETHANE

PU 941 HB100 2K

Flexible non-slip polyurethane floor coating

COLOUR
RAL colours
anti-slip finish

1.40 g/cm³	99 %	20–25 min	4–5 h	approx. 0.300 kg/m²
Mixed density (20 °C)	Solids (by weight)	Pot life (20 °C)	Touch dry (20 °C)	Consumption

Product description

PU 941 HB100 2K is a flexible, non-slip, two-component, coloured, solvent-free polyurethane coating formulated for easy application on industrial floors.

Application areas

- Warehouses, car parks and ramps
- Laboratories, chemical and pharmaceutical industries
- Shopping malls, supermarkets, school corridors and classrooms
- Food facilities where hygiene affects production
- Exhibition and fair areas; renovation of PU-coated floors

Advantages

- Anti-slip
- Solvent-free
- High flexibility, durability and tear resistance
- High moisture resistance, optimum curing
- Can be applied in all climate conditions
- Easy to apply

Position in the system

UV topcoat (if required)
PU ACRYLIC TOP COAT 2K

Non-slip coating — THIS PRODUCT
PU 941 HB100 2K · 3–4 m²/kg

Primer
AQ PRIMER 2K or UNEPOX 128-05

Substrate
Concrete (21–28 days, moisture < 6 %)

L'unicflex industrial

Flexible polyurethane floor systems

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Technical data (at +20 °C)

Component A	**PU resin**	Pot life (20 °C)	**20–25 min**
Component B	**MDI hardener**	Touch dry (20 °C)	**4–5 h**
Colour	**RAL colours**	Drying time (20 °C)	**24 h**
Mixed density (20 °C)	**1.40 g/cm³**	Full cure	**7 days**
Solids (by weight)	**99 %**	Intercoat interval	**min. 16 h – max. 24 h**
Application 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

Pour onto the floor and spread with a roller. For efficient non-slip properties apply at 3–4 m²/kg.

04

Intercoat interval

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

Mixing ratio (by weight)

77 parts | **23 parts**

- **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
approx. 0.300 kg/m²
Theoretical on impermeable, flat surfaces – 3–4 m²/kg for the non-slip effect.

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

Important: PU 941 HB100 2K is not UV-stable – where UV resistance is required, apply PU ACRYLIC TOP COAT 2K.

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.