

PU 941 HB100 2K Polyurethane Flexible Non-Slip Floor Coating

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PRODUCT DESCRIPTION

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

APPLICATION AREAS

- Warehouses
- Car Parks and Ramps
- Laboratories
- Chemical and Pharmaceutical Industries
- Shopping Malls and Supermarket floors
- School corridors and classrooms
- Floors of food facilities where hygiene conditions affect production
- Repair or renovation of existing polyurethane-coated floors
- Used as flooring material in exhibition and fair areas

ADVANTAGES

- Solvent-free.
- High flexibility, durability, and tear resistance.
- High resistance to moisture and optimal curing time.
- Can be safely applied on industrial floors under all climate conditions.
- Produced for indoor areas.
- Easy to apply.
- Antislip.

RESISTANCE

It is resistant to diluted acids, diluted and concentrated alkalies, cleaning detergents and disinfectants, vegetable, mineral, and animal oils, fresh and saltwater, diesel, gasoline, alcohol, and many other solvents.

TECHNICAL DATAS

PU 941 HB100 2K A KOMPONENT	PU RESIN
PU 941 HB100 2K B KOMPONENT	MDI HARDENER
COLOUR	RAL Colours
Mixed Density (20°C)	1,40 gr/cm ³
Solid (by Weight)	%99
Application Temperature	+10°C +30°C
Pot Life (20°C)	20-25 min
Touch Dry (20°C)	4-5 h
Drying Time (20°C)	24 h
Full Cure	7 day

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PACKAGING

15,4 kg A +4,6 kg B

APPLICATION PROCEDURE

SURFACE PREPARATION

The surface to be coated with PU 941 HB100 2K must be free from dust, dirt, oil, and any other substances that may hinder adhesion. The application should be carried out within the recoating window of the coating system.

PU 941 HB100 2K is applied to the surface after the curing of AQ Primer or UNEPOX 128-05 primer. The surface to which PU 941 HB100 2K will be applied must be dry and clean.

In case of application over existing coatings, consult our Technical Service for the appropriate application method.

MIXING

PU 941 HB100 2K is produced in ready-to-use sets based on mixing ratios. Prior to application, ensure that the material temperatures are between 15°C-25°C.

The A component of PU 941 HB100 2K is colored. The A component should be thoroughly mixed with an industrial mixer at 300-400 revolutions per minute for 3-4 minutes without introducing air. Subsequently, the B Hardener component is added and mixing is continued. It is crucial to ensure thorough mixing of the A and B components along the walls and bottom of the container to achieve a homogeneous mixture. Failure to do so may result in an incorrect application with unmixed A or B components forming a soft, sticky film on the surface after application. An important aspect to note here is that the mixing nozzle should touch the bottom of the container to minimize air ingress into the mixture and ensure a smoother application surface. The mixture should then be transferred to a clean container, stirred for another 1-2 minutes, allowed to rest for 1-2 minutes, and then proceeded with the application. Only prepare an amount of material that can be applied within the pot life of the mixture.

MIXING RATIOS

PU 941 HB100 2K	A Component	B Component
Mixing Amount by Weight %	77 parts	23 parts

APPLICATION METHODS

PU 941 HB100 2K should be poured onto the floor and spread using a roller. For efficient non-slip properties, application should be done at a consumption rate of 3-4 m²/kg.

CONSUMPTION

PU 941 HB100 2K is used at various consumption rates depending on the application thickness and floor conditions. Theoretical coverage on impermeable and flat surfaces is approximately 0.300 kg/m² on average.

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INTERCOAT INTERVAL TIME

Minimum 16 hours, maximum 24 hours. If this time is exceeded, the floor must be sanded to ensure good adhesion.

CLEANING

Clean all equipment immediately with Special Diluent UP-002. If the coating has cured, manual cleaning is required. Hands should only be cleaned with mild soaps and plenty of water.

MAINTENANCE

Clean the surface with UNICA SFC Cleaner. For necessary recommendations, contact UNICA technical sales.

LIMITATIONS

PU 941 HB100 2K is best applied by experienced applicators.

The optimum application/curing temperature is between 10°C-32°C.

Low temperatures slow down curing time, while high temperatures accelerate it.

Maximum relative humidity during application and curing is approximately 85%.

Substrate temperature should be at least 3°C above the dew point.

Concrete moisture content should be less than 6% by weight.

Do not apply to porous or damp substrates where vapor transmission may occur during application and curing.

Concrete should be at least 21-28 days old depending on conditions.

Prior to application, the surface must be dry, free from dust, oil, and residues.

If rain is expected, do not proceed within 10-16 hours. In case of rain, wait for the surface to dry completely to prevent potential adhesion and bonding risks.

Surface preparation (filling holes, cracks, stained areas, etc.) should be done properly before application.

Surface irregularities may be reflected through the applied system.

For application over existing coatings, compatibility and adhesion tests should be conducted.

Do not expose materials to outdoor or direct sunlight.

Do not hand mix products, use an electric mixer at low speed.

Do not add a solvent not recommended by UNICA.

The shown thicknesses are minimum recommendations for guidance purposes. Consult with UNICA if additional thickness is needed.

PU 941 HB100 2K is not UV stable; if UV-resistant coating is required, apply PU Acrylic Top Coat 2K.

Vehicle fluids (hydraulic oil, gasoline, antifreeze, etc.) can stain floors. Such liquid spills should be cleaned immediately as the coating can be damaged from prolonged exposure in certain cases.

Conducting tests on-site is strongly recommended to verify substrate conditions, application methods, determine acceptable workmanship, define consumption, coating and desired slip resistance, and approve finishing standards and aesthetics.

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STORAGE

Products should be stored in tightly closed containers in dry environments within the temperature range of 15°C-35°C under protected storage conditions. If storing products at around +5°C, it is recommended to bring them to a suitable temperature of at least +10°C before use to ensure they're at the appropriate temperature. Do not use direct heat sources, flame, hot bodies, or similar items to heat the products. Lower temperatures can increase the viscosity of the material in its original packaging, making its use difficult and could extend or hinder the drying and hardening process of various products. It is advisable to complete each job with materials from the same manufacturing batch. When using different batches, it is recommended to mix the products together.

SHELF LIFE

The product has a shelf life of 12 months from the production date.

SAFETY AND RELATED DATA

PU 941 HB100 2K is not classified as a hazardous substance. It does not contain substances such as mercury, asbestos, formaldehyde, or lead. Proper use of equipment and personal protective gear is recommended during surface preparation, product handling, and application stages. Do not expose products to direct heat sources or temperatures below +5°C for extended periods. For more detailed information, please refer to the Material Safety Data Sheet.

Note

This technical statement provides guidance based on the test evaluations and results conducted according to relevant standards to assist applicators. Since workmanship, weather conditions, construction, equipment used, and other variables influencing the outcomes are entirely beyond our control, UNİCA does not provide any explicit or implicit warranty regarding this material. UNİCA only guarantees that the material is suitable for 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. In no event shall UNİCA be liable for any direct or incidental, special, or consequential injury, loss, or damage arising directly or incidentally from the material applied or the process. UNİCA is in no way responsible for any defect, alteration, or change in condition in the substrate where its products are applied.