

## PU 941 SL 2K

### Self-Leveling Polyurethane Floor Coating

#### PU 941 SL 2K

PU 941 SL 2K Self-Leveling Polyurethane Floor Coating

#### PRODUCT DESCRIPTION

PU 941 SL 2K is a rigid-flexible, polyurethane-based, two-component, colored, solvent-free, self-leveling polyurethane coating material formulated for industrial floors.

#### APPLICATION AREAS

- Warehouses
- Laboratories
- Chemical and pharmaceutical industry
- Malls and supermarket floors
- School corridors and classrooms
- Floors of food facilities where hygiene conditions affect production
- For repair or renovation of existing polyurethane-coated floors
- Used as a flooring material in exhibition and fairgrounds

#### ADVANTAGES

- Solvent-free
- High elasticity, durability, and tear resistance
- High resistance to moisture with optimum curing time
- Can be safely applied on industrial floors in all climate conditions
- Manufactured for indoor areas
- Easy to apply
- Certified for CleanRooms, does not harbor bacteria

#### RESISTANCE

Resistant to diluted acids, diluted and concentrated alkalines, cleaning detergents and disinfectants, vegetable, mineral, and animal oils, fresh and saltwater, diesel, gasoline, alcohol, and various solvents.

#### TECHNICAL DATAS

PU 941 SL 2K A COMPONENT	POLYURETHANE RESIN
PU 941 SL 2K B COMPONENT	MDI HARDENER
COLOR	Various RAL Colors
Mixing Density (20°C)	1.40 gr/cm <sup>3</sup>
Solids Content (by weight)	93%
Floor and Ambient Temperature for Application	+10°C to +30°C
Pot Life (20°C)	20-25 minutes
Touch Dry (20°C)	4-5 hours
Full Drying Time (20°C)	24 hours
Full Cure	7 days

## PU 941 SL 2K

### Self-Leveling Polyurethane Floor Coating

#### APPLICATION PROCEDURE

##### SURFACE PREPARATION

The application surface for PU 941 SL 2K should be free from dust, dirt, oil, and other substances that may hinder adhesion. The application should be done within the redressing time of the coating system.

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

For application over existing coatings, refer to our Technical Service for the application method.

##### MIXING

PU 941 SL 2K is produced in ready-to-use sets based on mixing ratios. Care should be taken to ensure that material temperatures are between 15°C and +25°C before application.

PU 941 SL 2K Component A is colored. Component A, with a suitable mixing tip attached, should be thoroughly mixed at 300-400 revolutions per minute with an industrial mixer for 3-4 minutes without introducing air. Then, Component B, the Hardener, is added and mixing continues. It is crucial to mix the perimeter and bottom points of Components A and B well to ensure a homogenous mixture. Otherwise, unmixed A or B components on the surface can create a soft, sticky film after application, leading to a faulty application. Pay attention to an important point, which is to make sure the mixing tip touches the bottom of the container. This will minimize the entry of air into the mix and provide a healthier, problem-free surface. The mixture is then transferred to a clean container, mixed for another 1-2 minutes, allowed to rest for 1-2 minutes, and then applied. Do not prepare more material than can be applied within the mixture's pot life.

##### MIXING RATIOS

PU 941 SL 2K	Component A	Component B
Mixture Amount % by Weight	77 parts	23 parts

#### APPLICATION METHODS

PU 941 SL 2K should be applied using a notched trowel to achieve the desired thickness. Once the coating reaches the appropriate consistency based on environmental conditions, excess air should be removed using a spike roller.

#### CONSUMPTION

PU 941 SL 2K is used at varying consumption rates depending on the application thickness and floor conditions. The average consumption for impermeable and flat surfaces ranging from 1,5-2 mm thickness is approximately 2,40-2,80 kg/m<sup>2</sup>. Consumption may vary depending on the selected system. For further information, consult BOYTEM's technical department.

## PU 941 SL 2K

## Self-Leveling Polyurethane Floor Coating

**PACKAGING**

Component A: 15,4 kg  
Component B: 4,6 kg

**INTERCOAT INTERVAL**

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 SL 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.
- For Esthetic finish UNICA advises PU WB Clear Coat 2K with Matt or Semi Matt options.
- 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.

**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 SL 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.