

## PU 901 SEALER 2K

## Polyurethane Elastic Pore Filling Coating for Poured SBR Floors

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**PRODUCT DESCRIPTION**

PU 901 SEALER 2K is a coating material used for leveling and sealing the pores of poured SBR surfaces in tartan track floors and similar sports systems. It is an elastic, polyurethane-based, two-component, thixotropic, solvent-free coating material.

**USES**

- Fitness Studio Floors
- Basketball, Volleyball, Handball Sports Surfaces
- Full Polyurethane Sports Systems
- Multi-purpose SBR, EPDM Surfaces
- School Indoor Play Areas
- Used as a system component in indoor game rooms
- Can be safely used for repairs or renovations of existing polyurethane-coated sports floors.

**ADVANTAGES**

- Solvent-free
- High elasticity, durability, and tear resistance
- High resistance to moisture and optimal curing time
- Can be safely applied on sports floors under all weather conditions
- Designed for outdoor durability, showing high resilience in external areas
- Easy to apply

**DURABILITY**

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

**TECHNICALS**

PU SEALER 2K A KOMPONENT	PU Resin
PU SEALER 2K B KOMPONENT	Hardener
COLOUR	Oxide Red, Blue
Mixed Density (20°C)	1,27 gr/cm <sup>3</sup>
Solid Content (by weight)	%99
Application Temperature	+10°C +30°C
Pot Life (20°C)	20-25 min
Touch Dry (20°C)	4-5 h
Full Dry (20°C)	24 h
Full Cure	7 days
%Elongation	61
Consumption	1,3-1,5 kg/m <sup>2</sup>
Shore after 28 days	A 80; D 48

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#### APPLICATION PROCEDURE

##### SURFACE PREPARATION

The surface for PU 901 SEALER 2K application must be free of dust, dirt, oil, and any other substances that may hinder adhesion. The application should be carried out within the recoatability period of the coating system.

PU 901 SEALER 2K is applied after the completion of the SBR Roll application on the surface. There is no need for any primer before application. The surface to which PU 901 SEALER 2K will be applied must be dry and clean.

##### MIXING

PU 901 SEALER 2K is produced in ready-to-use sets based on mixing ratios. Prior to application, ensure that the material temperatures are between 15°C and +25°C.

The A component of PU 901 SEALER 2K is colored. The A component should be mixed thoroughly for 3-4 minutes with an industrial mixer running at 300-400 revolutions per minute and a suitable mixing tip, ensuring thorough mixing without introducing air. Then, the B Hardener component is added and mixing is continued. It is crucial to mix the A and B components thoroughly from the sides and bottom of the container to ensure a homogeneous mixture. Otherwise, unmixed A or B components may create a soft, adhesive film on the surface after application, leading to a faulty application. One important aspect to consider here is ensuring that the mixing tip does not touch the bottom of the container. This will minimize air entry into the mixture, providing a healthier, problem-free surface. The mixture is then transferred to a clean container, mixed for another 1-2 minutes, and left to rest for 1-2 minutes before application. It is essential not to prepare more material than can be applied within the mixture's lifespan.

##### MIXING RATIOS

PU 901 SEALER 2K	A Komponent	B Komponent
% by Weight	88 Unit	12 Unit

##### APPLICATION METHODS

PU 901 SEALER 2K should be applied using a flat steel trowel to fill the pores to achieve the desired thickness.

##### CONSUMPTION

PU 901 SEALER 2K has an average consumption of approximately 1.5-1.6 kg/m<sup>2</sup> depending on the application thickness and floor conditions. Consumption may vary based on the selected system. For further information, please consult BOYTEM's technical department.

##### INTERVAL TIME

Minimum 16 hours, maximum 24 hours. If this time is exceeded, the surface should be roughened with sandpaper for good adhesion.

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#### IMPORTANT NOTES

- In application, if the ambient and surface temperatures are above +30°C or below +10°C, suitable temperatures should be awaited. Moreover, applications should not be done in extremely hot, rainy, or windy weather.
- Application materials should be brought to the application area 1-2 days in advance, ensuring maximum compatibility with environmental conditions.
- In cold weather applications, heaters should be used to increase ambient and floor temperatures. To enhance the workability of the material, the packages should be conditioned at +20-+25°C before use.
- Two-component or multi-component products like epoxy or polyurethane should be applied by professional and experienced application teams.
- The working and reaction times of resin-based systems are influenced by ambient and floor temperatures and relative humidity. Low temperatures slow down the chemical reaction, extending the pot life, recoat window, and working time. Additionally, viscosity increases, leading to higher consumption. High temperatures accelerate the chemical reaction, thereby shortening the times mentioned above. To ensure the material fully cures, the ambient and floor temperatures should not drop below the minimum allowable temperature.
- A finished coating should be protected from water contact for at least 24 hours. Sudden temperature drops can cause the surface to become dull and have a streaky appearance. Therefore, in conditions where there are extreme day/night temperature differences, the application should start early in the day and finish early on the same day. Water contact immediately after application leads to carbonation, resulting in a sticky film on the surface, necessitating complete removal and reapplication of the coating.
- Mixing should be done with a mechanical mixer running at 300-400 revolutions per minute with a polyurethane mixing tip. Manual mixing should be avoided.
- PU 901 SEALER 2K is produced and packaged in ready-to-use sets. No thinning solvents should be added under any circumstances.
- The mixture must be transferred to another clean container to ensure there are no unmixed A or B components. Otherwise, unreacted A or B components will not cure on the floor surface.

#### CLEANING OF TOOLS AND EQUIPMENT

Tools and equipment used must be cleaned before drying. Use a special cleaning thinner UP-002 Thinner for cleaning. Tools and equipment can only be cleaned through mechanical means (scraping, grinding) after PU 901 SEALER 2K has fully cured.

#### PACKAGING

Component A: 17,6 kg  
Component B: 2,4 kg

#### STORAGE

Unopened original sealed packages should be stored in cool, dry areas and protected from freezing.

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#### SHELF LIFE

Under appropriate storage conditions at temperatures of 15-25°C, the shelf life from the production date is 6 months. Once opened, packages can be used within 2 weeks, provided they are thoroughly mixed.

#### SAFETY MEASURES

PU 901 SEALER 2K is not in the hazardous class and does not contain harmful components like formaldehyde, asbestos, or mercury. It also includes flame-retardant additives. During application, proper workwear, protective eyewear, mask, and gloves must be worn for occupational safety and health. Especially because Hardener components can be irritating, measures should be taken to prevent eye and skin contact, and all precautions should be observed. In case of contact, wash with plenty of water and soap; avoid cleaning with solvents. In the event of ingestion, seek immediate medical attention. Applications should be carried out in well ventilated areas, with the applying company taking all necessary precautions. Any contact between food and beverage items and the products must be avoided at the application site. Workers with chemical sensitivities should not be allowed to work. For more detailed information, refer to the Product Safety Data Sheet.

#### Note

The statements made on this technical sheet are believed to be true and accurate, and are intended to provide a guide for approved construction practices. UNİCA does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. UNİCA warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNİCA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNİCA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.