

PU SEALER 2K

Polyurethane Elastic Pore Filling Coating for Indoor Sports

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PRODUCT DESCRIPTION

PU SEALER 2K is a tixotropic, two-component, solvent-free, elastic, polyurethane-based filling coating used for leveling and pore sealing of indoor sports surfaces, roller and cast SBR surfaces.

APPLICATION AREAS

- Fitness Center Floors,
- Basketball, Volleyball, Handball sports surfaces,
- Full polyurethane sports systems,
- Multipurpose SBR, EPDM fields,
- School indoor play areas,
- Used as a system component in indoor playrooms.
- Safe to use for repair or renewal of existing polyurethane-coated sports surfaces.

ADVANTAGES

- Solvent-free.
- High elasticity, durability, and tear resistance.
- High resistance to moisture and optimal curing time.
- Can be safely applied on sports surfaces in all climatic conditions.
- Designed for outdoor use, exhibiting high durability in outdoor conditions.
- Easy to apply.

RESISTANCE

It is resistant to diluted acids, diluted and concentrated alkalis, cleaning detergents and disinfectants, vegetable, mineral, and animal oils, freshwater and saltwater, diesel, gasoline, alcohols, and many other solvents.

TECHNICAL DATAS

PU SEALER 2K A COMPONENT	POLYURETHANE RESIN
PU SEALER 2K B COMPONENT	POLYURETHANE HARDENER
COLOR	Grey
Mixing Density (20°C)	1,27 gr/cm ³
Solids Content (by Weight)	%99
Floor and Ambient Temperature Range	+10°C +30°C
Pot Life (20°C)	20-25 dakika
Touch Dry (20°C)	4-5 saat
Drying Time (20°C)	24 saat
Full Curing	7 gün
%Elongation	61
Shore Value after 28 days	A 80; D 48

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APPLICATION PROCEDURE

SURFACE PREPARATION

The surface for the PU SEALER 2K application should be free from dust, dirt, oil, and any other substances that may hinder adhesion. Application should be done within the recoating window of the coating system. PU SEALER 2K is applied after the completion of SBR Roller application on the surface. No primer is needed before application of PU SEALER 2K. The surface to be coated with PU SEALER 2K must be dry and clean.

MIXING

PU SEALER 2K is produced in ready-to-use kits according to mixing ratios. It is crucial to ensure that the material temperatures are between 15°C and +25°C before application.

The A component of PU SEALER 2K is colored. The A component should be thoroughly mixed with an appropriate mixing tip attached to an industrial mixer running at 300-400 revolutions per minute for 3-4 minutes without entrapping air. Subsequently, the B Hardener component is added and mixing is continued. It is essential to mix the A and B components thoroughly from the sides and bottom of the container to achieve a homogeneous mixture. Otherwise, unmixed A or B components may create a soft sticky film on the surface post-application, leading to incorrect application. A crucial point to note is that the mixing tip should touch the bottom of the container to minimize air entrapment, ensuring a smoother and problem-free surface. The mixture is then transferred to a clean container, further mixed for 1-2 minutes, allowed to rest for 1-2 minutes, and then applied. It is advisable not to prepare more material than can be applied within the pot life of the mixture.

MIXING RATIOS

PU SEALER 2K	Component A	Component B
Mixing Ratio % by Weight	88 parts	12 parts

APPLICATION METHODS

PU SEALER 2K should be applied with a flat steel trowel to fill voids to achieve the desired thickness.

CONSUMPTION

PU SEALER 2K has an average consumption rate of approximately 0,6-1,4 kg/m² depending on the application thickness and surface conditions. Consumption may vary based on the selected system. For more information, you can contact BOYTEM's technical department.

INTERCOAT INTERVAL

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

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POINTS TO CONSIDER

- Ensure that the ambient and surface temperature is between +30°C and +10°C for application. Avoid applying in excessively hot, rainy, or windy conditions.
- Application materials should be brought to the application area 1-2 days in advance to acclimate to the environmental conditions.
- In cold weather applications, use heaters to increase ambient and surface temperatures. Condition the packaging at +20°C to +25°C to enhance the workability of the material.
- Two-component products like Epoxy or Polyurethane should be applied by professional and experienced application teams.
- Resin-based systems are influenced by working and reaction times, ambient and surface temperature, and relative humidity. Lower temperatures slow down chemical reactions, extending pot life, recoating time, and working time. Viscosity increases, leading to higher consumption. Higher temperatures accelerate chemical reactions and shorten the previously mentioned times accordingly. To ensure complete curing of the material, ambient and surface temperatures should not drop below the minimum allowed 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 or develop a stained appearance. In conditions with extreme day/night temperature fluctuations, start the application early in the day and finish on the same day. Immediate water contact post-application can cause carbonation, leading to a sticky film formation on the surface, requiring complete removal and reapplication of the coating.
- Mixing should be done using a mechanical mixer with a polyurethane mixing tip running at 300-400 revolutions per minute. Avoid manual mixing.
- PU SEALER 2K is produced and packaged in ready-to-use kits. Do not add any thinning solvents.
- Ensure the mixture is transferred to a clean container and verify there are no unmixed A or B components. Otherwise, unmixed components will not dry on the surface.

CLEANING OF TOOLS AND EQUIPMENT

Tools and equipment must be cleaned promptly without allowing the material to dry. Use UP-002 Thinner for cleaning. Tools and equipment can only be cleaned mechanically (scraping, grinding) after PU SEALER 2K has fully cured.

PACKAGING

A Component 17,6 kg

B Component 2,4 kg

STORAGE

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

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SHELF LIFE

Under proper storage conditions at 15-25°C, shelf life is 6 months from the production date. Opened packages can be used within 2 weeks if thoroughly mixed.

SAFETY MEASURES

PU 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.