

PU ELASTIC SL 2K

Self-leveling Polyurethane Coating for Indoor Sports Floors

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PRODUCT DESCRIPTION

PU ELASTIC SL 2K is a self-leveling polyurethane coating material designed for indoor sports floors. It is an elastic, polyurethane-based, two-component colored material that is solvent-free and self-leveling.

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 optimum curing time
- Can be safely applied on sports floors in all weather conditions
- Manufactured to withstand outdoor conditions, providing high durability 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 many other solvents.

TECHNICALS

PU ELASTIC SL 2K A KOMPONENT	PU RESIN
PU ELASTIC SL 2K B KOMPONENT	HARDENER
COLOR	Available in certain RAL Colours
Mixed Density (20°C)	1,35 gr/cm3
Solid (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 Curing Time	7 day
% Elongation	66
Shore	A 82; D 46

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APPLICATION PROCEDURE

SURFACE PREPARATION

Before applying PU ELASTIC SL 2K, the surface to be coated should be free from dust, dirt, oil, and any other substances that may hinder adhesion. The application should be done within the reapplication interval of the coating system.

PU ELASTIC SL 2K is applied once the PU SEALER 2K on the surface starts to cure. There is no need for primer application before the process. The surface where PU ELASTIC SL 2K will be applied must be dry and clean. If more than 48 hours have passed since the application of PU SEALER 2K, it is mandatory to apply UNIPU 060 1K for enhanced interlayer adhesion.

When applying over existing coatings, it is advisable to consult our Technical Service for the application method.

MIXING

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

Component A of PU ELASTIC SL 2K is colored. Component A should be mixed thoroughly with an appropriate mixing tip attached to an industrial mixer running at 300-400 revolutions per minute for 3-4 minutes, ensuring thorough mixing without introducing air into the mixture. Subsequently, the B Hardener component is added and mixing is continued. Proper mixing of the container's sidewalls and bottom points of both A and B components is crucial for the homogeneity of the mixture. Otherwise, unmixed A or B components on the surface after application could lead to an erroneous application by creating a soft, adhesive film. An important point to note here is that the mixing tip should touch the bottom of the container. This minimizes air entry into the mixture and ensures a healthier and problem-free surface. Afterward, the mixture is transferred to a clean container, mixed for an additional 1-2 minutes, allowed to rest for 1-2 minutes, and then the application process can begin. Avoid preparing more material than can be applied within its pot life.

MIXING RATIOS

PU ELASTIC SL 2K	A Komponent	B Komponent
% by Weight	85 units	15 units

APPLICATION METHODS

PU ELASTIC SL 2K should be applied using a notched trowel to achieve the desired thickness, and once the coating reaches the appropriate consistency based on ambient conditions, air should be removed using a spiked roller.

CONSUMPTION

PU ELASTIC SL 2K is used in varying consumptions depending on the application thickness and floor conditions. The average consumption for impermeable and flat surfaces with thicknesses ranging between 1.5-2 mm is approximately 2.40 kg/m². Consumption will vary based on the selected system. For guidance on this matter, you can contact BOYTEM's technical department.

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INTERVAL TIME

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

POINTS TO CONSIDER

- During application, if the ambient and surface temperature is above +30°C or below +10°C, suitable temperatures should be awaited. Moreover, extreme hot, rainy, or windy conditions should be avoided for application.
- Application materials should be brought to the site 1-2 days prior and maximum effort should be made to ensure their adaptation to the ambient conditions.
- In cold weather applications, heaters should be used to increase ambient and floor temperatures; packaging should be conditioned at +20/+25°C to prepare the material for use.
- Two or more 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. Chemical reactions slow down at low temperatures, extending pot life, recoating times, and working times. Additionally, viscosity increases, causing higher consumption. High temperatures accelerate chemical reactions, shortening the mentioned times accordingly. For the material to complete its full cure, ambient and floor temperatures should not fall 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 application surface to become matte and develop a stained appearance. Hence, in conditions where night/day temperature differences are extreme, application should start early and finish on the same day. Immediate water contact post-application leads to carbonization, forming a sticky film on the surface, necessitating complete removal and reapplication of the coating.
- Mixing should be with a mechanical mixer running at 300-400 rpm equipped with a polyurethane mixing tip. Hand mixing should be avoided.
- PU ELASTIC SL 2K is packaged and provided as ready-to-use kits. No thinning solvents should be added under any circumstances.
- The mixture must be transferred to a clean container to ensure that there are no unmixed A or B components. Otherwise, unmixed A or B components will not cure on the 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 ELASTIC SL 2K has fully cured.

PACKAGING

Component A: 17 kg

Component B: 3 kg

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STORAGE

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

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 ELASTIC SL 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.