

UNIPU SPRAY COAT 2K

Two-component, elastic PUR Spray Coating for Granular

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PRODUCT DESCRIPTION

UNIPU SPRAY COAT 2K is utilized as an elastic coating for the installation of seamless PUR systems or sandwich systems for sports surface coatings on athletic tracks, courts, multipurpose sports facilities, school playgrounds, and indoor game courts. It can also be used for re-coating old PU surfaces.

ADVANTAGES

- Long mixing life
- Excellent curing
- Excellent moisture resistance during curing
- Superior durability
- High abrasion resistance
- Stable flexibility after complete curing
- Easy application

COLORS: Red, Green, Blue, or custom colors upon request

TECHNICAL DATA (for mixed product at 23°C)

Density A Component	1,37 gr/cm ³
Density B Component	1,23 gr/cm ³
Density Mixed A+B	1,35 gr/cm ³
Viscosity A Component	2400 mPas
Viscosity B Component	200 mPas
Viscosity Mixed A+B	1650 mPas
Pot Life	12° C 60 min. 23° C 45 min. 30° C 38 min.
Shore A	@24 h %40; @8 days %60
Tensile Strength DIN 53504	2,0 N/mm ²
Elongation at break DIN 53594	%90
Tear Strength DIN 53515	3,5 N/mm
Application Temperature	Minimum 10°C, Maximum 40°C
Relative Humidity	Max. 90%
Service Time	<19 h
Theoretical consumption EPDM included	1,8-1,9 kg/m ²
Mixing Ratio by Weight	A:B 82,5:17,5
Application method	By spray machine

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APPLICATION PROCEDURE**SURFACE PREPARATION**

The surfaces to be coated must be sound, dry, capable of bearing loads, free from loose and brittle particles, and cleared of substances that could disrupt adhesion, such as oil, grease, tire skid marks, paint, or other contaminants.

Under these conditions, UNIPU SPRAY COAT 2K can be directly applied without primer onto SBR INSITU or prefabricated SBR rolls. Before applying SBR, UNIPU 045 1K primer should be applied to the concrete surface (refer to product information sheet). The bonding strength of the surface should be at least 1.0 N/mm². The surface moisture of the concrete should not exceed 4%.

When coating an existing surface, adhesion tests should be carried out first. Surface sanding and dust removal may be required before applying UNIPU SPRAY COAT 2K, followed by priming with UNIPU 060 1K (Consumption 0.200 kg/m²).

APPLICATION

The A component of UNIPU SPRAY COAT 2K must be mixed before application. Drum mixers with low-speed mixing devices can be used for this purpose.

The A and B components of UNIPU SPRAY COAT 2K are weighed in separate containers in a ratio of 80:20 by weight. Part A and part B are poured into a mixed container and thoroughly mixed using a slow rotating mixer at approximately 300 rpm to reach the edges and bottom of the mixing container. The mixing process should last at least two minutes and continue until the mixture becomes homogeneous. The mixed material is then poured into a second container and mixed for one more minute. Subsequently, 0.5-1.5 mm EPDM (Spray Blend Coating: EPDM ratio 100:50) is added, followed by the addition of 2% EPDM powder. For better spraying conditions, you may need to add 5% Special Thinner UP-008. It is recommended to follow the manufacturer's instructions for any mixer, but achieving a homogeneous mixture is crucial. The average component temperature should be between 15-25°C.

APPLIED SYSTEMS

UNIPU SPRAY COAT 2K can be used in the following systems:

L'UNICFLEX SP (Spray Athletic Track Coating)

However, the material can be used in other systems and applications.

PACKAGING

UNIPU SPRAY COAT 2K is supplied in a 220 kg metal drum A and a 220 kg metal drum B.

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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 using a mechanical mixer with a polyurethane mixing tip running at 300-400 revolutions per minute. Avoid manual mixing.
- UNIPU SPRAYCOAT 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 UNIPU SPRAY COAT 2K has fully cured.

STORAGE

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

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.

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SAFETY MEASURES

PU SPRAY COAT 2K 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, 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.