

UNIPU 901 2K

PUR Coating for Granulated Sports Surfacing Systems

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Selflevelling Elastic PUR Coating for Granulated Sports Surfacing Systems

PRODUCT DESCRIPTIONS

UNIPU 901 2K is used as an elastic selflevelling coating for the installation of sports surfacing systems, like solid PUR systems or sandwich systems, for athletic tracks, runways, multipurpose sports facilities, school playgrounds and hall game courts. UNIPU 901 2K can also be used for the re-topping of old PUR surfaces.

PRINCIPAL CHARACTERISTICS

- Long pot life,
- Excellent curing
- Very good moisture resistance during the curing process.
- Outstanding durability,
- Wear resistance,
- Strength and elasticity once fully cured.
- Easy to apply in all conditions

COLOURS: Red, Green, Blue.

BASIC DATA (for mixed product at 23 °C)

Mass Density A Component	1,62 gr/cm ³
Mass Density B Component	1,26 gr/cm ³
Mass Density(mixed)	1,55 gr/cm ³
Viscosity Component A	4900 mPa.s
Viscosity Component B	450 mPa.s
Viscosity Mixed	2400 mPa.s
Pot life at 12 °C	80 min.
Pot life at 23 °C	60 min.
Pot life at 30 °C	45 min.
Ready for foot traffic (broadcasted Surface)	<19 h
Ready for removing excess granules	<24 h
Substrate and application temperature	minimum 10 °C - maximum 40 °C
Permissible relative humidity	maximum 90 %
Shore A hardness after 24 h	40
Shore A hardness after 28 d	55-60
Tensile strength DIN 53504	2.0 N/mm ²
Elongation at break DIN 53594	140 %
Tear strength DIN 53515	3,5 N/mm

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INSTRUCTION FOR USE

Mixing Ratio	: by weight base to the hardener 85:15
Pot life at 23°C	: 45 minutes
Application Method	: Rubber notched squeegee

- The Temperature of mixed should be above +15°C
- Thinner shouldn't be added to the product.

SURFACE PREPARATION

Substrates to be coated have to be firm, dry, load bearing and free of loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Under these conditions UNIPU 901 2K can be applied directly on asphalt without any primer.

On concrete, it is necessary to apply primer UNIPU 045 1K (see product data sheet). The bond strength of the substrate must be at least 1.0 N/mm². The surface moisture of the concrete should not be higher than 4%. The temperature of the current dew point temperature. Fresh surfaces consisting of smooth or broadcast UNIPU 901 2K or fresh pore sealed surfaces with UNIPU SEALER 2K In case of coatings or pore sealers older than 2 days, the application of primer UNIPU 045/060 1K with a maximum coverage rate of 0.100 kg/m², before recoating, is mandatory. If needed the surface should be grinded.

When coating an old PUR surface, adhesion tests should be carried out first. It may be necessary to grind the surface and remove the dust then apply UNIPU 045/060 1K (max. Coverage is 0,100 kg/m²) as a primer before the application of UNIPU 901 2K. This will be determined by adhesion test. In all cleaned by high-pressure water and then left to thoroughly dry.

APPLICATION

A component of UNIPU 901 2K has to be homogenised before application. This can be achieved by rolling the drums or by thoroughly stirring in tote using a forced stirrer.

Components A and B of UNIPU 901 2K are weighed out in separate containers in the ratio of 89:11 by weight respectively. Part A and part B are poured into a mixed container and thoroughly mixed using a slowly rotating mixer at about 300 rev/min ensuring that the mixer reaches the sides and bottom of the mixing vessel. The mixing process takes at least two minutes and should be performed until the blend is homogeneous and streak free. The mixed material is then tipped into a second container and mixed for a further minute.

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For any mixer we recommend you to review the UNICA's instructions but it is essential to obtain a homogeneous mix. The average component temperature should be 15-25 °C.

After the mixing process, UNIPU 901 2K is applied to the pre-treated substrate using a squeegee, scraper or notched trowel. The tooth size should be selected according to the thickness of the layer required. Within 5-10 minutes, the fresh surface has to be covered with excess EPDM or recycled granules (appropriate grain size usually \varnothing 1-3 mm to \varnothing 1-4 mm). In order to avoid possible bald spots, it might be necessary to broadcast additional granules after some minutes. Excess and loose granules are removed after curing and can be re-used.

Work and cure time of UNIPU 901 2K are influenced by ambient and substrate temperature. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, recoating interval and open time. High temperature and humidity accelerate chemical reactions. Direct sunlight shortens the time frames considerably.

UNIPU 901 2K has excellent water resistance during curing. Nevertheless, as with all systems based on isocyanate, water might cause foaming on the surface of the coating, therefore, after application, the material should be protected from contact with water for a few hours. In case of (expected) rain, UNIPU 901 2K should not be applied.

APPLIED SYSTEMS

UNIPU 901 2K can be used in the following systems:

L'UNICFLEX MULTI

L'UNICFLEX PRO

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

PACKING

UNIPU 901 2K is supplied in 17 kg in Can A; 3 kg in Can B

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STORAGE

Store in original closed containers, under dry conditions at temperature range of 5-25 °C. Do not expose the drums to direct sunlight.

Under these conditions, the material has a shelf life 12 months.

SAFETY-RELATED DATA

UNIPU 901 2K is non-hazardous when cured and contains no formaldehyde, asbestos, mercury, lead or chromate and derivatives. For detailed information on safe transportation, occupational health and safety, please refer to the relevant product safety data sheet (MSDS).

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.