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L'UNICFLEX PRO PU Outdoor Full Polyurethane Athletic Track

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L'UNICFLEX PRO

PU Outdoor Full Polyurethane Athletic Track

System Description

L'unicflex Pro involves spreading selected rubber granules on a special elastic polyurethane fluid applied to the ground at a specific thickness, with this process repeated multiple times. In the final stage, it is covered with 1-3.5 mm EPDM.

System Components&Consumtions

Product	Product Info	Consumption(kg/m ²)				
UNIPU 045 1K	PU Primer for Concrete	0,200 kg				
UNIPU 060 1K	PU Primer for Asphalt	0,200 kg				
UNIPU 901 SL 2K	PU Elastic Selflevelling	3,000 kg				
SBR	1-4 mm SBR	2,400 kg*				
UNIPU 901 SL 2K	PU Elastic Selflevelling	3,000 kg				
SBR	1-4 mm SBR	2,400 kg*				
UNIPU 901 SL 2K	PU Elastic Selflevelling	3,000 kg				
*EPDM (1-3,5 mm)	Colored EPDM	3,000 kg**				
UNIPU OVERLINE 2K	PU Line Marking Paint					

The total thickness is approximately 13 mm (10 mm SBR + 3 mm EPDM).

* Net consumption is indicated. Depending on the surface and application method, the net consumption is approximately 2.4 kg. During application, there is an approximate consumption of 5.5-6 kg/m2. After application, any excess SBR is reclaimed by sweeping or vacuuming it from the surface.

** Net consumption is indicated. Depending on the surface and application method, the net consumption is approximately 3 kg. During application, there is an approximate consumption of 5.5-6 kg/m2. After application, any excess EPDM is reclaimed by sweeping or vacuuming it from the surface.

Technicals

Tests	WA	DIN18035/6	+5°C	+23°C	+35°C
	standart				
Vertical deformation	<2,5	2,2	1,9	2,1	2,3
Force Reduction	35-50 %	38	36	38	40
Tensile Strength	>0,5 N/mm²	0,59			
Elongation at Break	>40 %	66 %			
Slip Resistance-wet	≧47 DIR A	77			
Ball Rebound	99 %				
Water Permeability	N/A	Impermeable			
Flammability		DIN51960 Class 1			









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Surface Preparation

The concrete or asphalt surface designated as the foundation for the L'unicflex PRO system must have completed its 30-day setting/curing period and should not exceed a moisture content of 3%. There should be no elevation differences on the concrete floor.

The concrete surface should be cleaned of dust, oil, and cement residues, and no surface hardening product that could adversely affect adhesion should be used.

Any hairline cracks, joints, and damaged areas on the concrete surface should be repaired and smoothed with UNEPOX COMPOUND ST.

Another important aspect is that concrete surfaces must be poured taking precautions against any moisture or water seepage from below, potentially utilizing effective barrier membranes, fibers, or chemical moisture barriers.

This application must be carried out by an application company approved by UNICA. Following the surface preparation procedures described above, the application should be conducted according to the application instructions provided below.

Application

Primer Application

A specially formulated single-component polyurethane, UNIPU 045 1K for concrete or UNIPU 060 1K for asphalt, is used to ensure compatibility with the subsequent coating component and the relevant substrate. The UNIPU 045/060 Primer can be applied at a rate of 0.150 kg/m²-0.200 kg/m² as per BOYTEM's instructions using an airless paint sprayer or paint roller.

PU 901 SL 2K+SBR Application

Mix PU 901 SL 2K A and B components together with a low-speed specially designed mixer, then spread the mixed material onto the primed surface using a suitable toothed rubber float in a wet film. Immediately sprinkle 1-4 mm SBR granules over the wet coating until completely covered. Using a suitable shovel is the most practical method. Allow PU 901 SL 2K Polyurethane fluid layer to cure for 16-24 hours. After curing, sweep or vacuum excess unattached SBR granules from the surface industrially. This process should be repeated twice in total.

Note: Curing time may vary depending on environmental temperature and humidity conditions.

PU 901 SL 2K +EPDM Application

To be applied on the SBR granule surface from the previous step, mix PU 901 SL 2K A and B components together with a low-speed specially designed mixer, then spread the mixed material onto the primed surface using a suitable toothed rubber float in a wet film. Immediately sprinkle 1-3.5 mm EPDM granules over the wet coating until completely covered. Using a suitable shovel is the most practical method. Allow PU 901 SL 2K Polyurethane fluid layer to cure for 16-24 hours. After curing, sweep or vacuum excess unattached EPDM granules from the surface industrially.



SOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ Factory: Gümüşova OSB. 1.5k Nox4 İç Kapı No:1 Gümüşva Düzce TÜRKİYE Navyu upicabaya com. İnformulicabaya com





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UNIPU OVERLINE 2K (Track Line Paint)

The line application is the most crucial aspect of an athletic track installation. It should be marked by experienced applicators using appropriate equipment in accordance with the relevant standards. UNIPU OVERLINE 2K is an aliphatic-based elastic line paint that should be applied using road line painting equipment.

Cleaning

All tools should be cleaned with the specific thinner, UP-002 Thinner, and hands should only be washed with mild soap and plenty of water.

Cleaning and Maintenance

Floor cleaning should be done with neutral cleaning detergents using a soft mop. It is essential to wear appropriate sports shoes on the floor and avoid walking with high-heeled shoes, cleats, or suede shoes. The floor should not be soiled with substances like gum, coffee, or tea.

Additionally, UNICA SFC Industrial surface cleaner is specially formulated to clean the applied system without damaging the floor. For detailed information about the product, contact the UNICA technical/sales department.

Repair

In areas requiring repair, damaged sections should be removed, and repairs should be carried out following the steps outlined in the job description above.

Key Points

- The L'unicflex PRO floor covering system should be applied by experienced application teams.
- Application should be carried the temperature range of 15°C-35°C.
- Drying and curing times will be slower at lower temperatures and faster at higher temperatures.
- The maximum relative humidity during application is approximately 85%.
- Surface temperature should be above the dew point <3°C.
- Moisture content in concrete floors should be <5% by weight.
- Presence of moisture during application may lead to the formation of bubbles on the surface.
- Newly laid concrete or asphalt surfaces need to cure for at least 21-28 days.
- Before application, the surface must be cleaned of all dust, dirt, oil, and cement residues.
- If the surface has been affected by water, wait for it to dry completely before applying.
- Any depressions, cracks, indentations, or damaged areas on the surface should be repaired and restored before application. However, surface irregularities may still be more noticeable due to the inherent unevenness of the concrete surface. This is not considered a product or application flaw.
- If there is an existing coating on the surface to be treated, conduct an adhesion and compatibility test in a suitable area before the application begins.







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- Products stored outdoors and exposed to sunlight can deteriorate inside their packaging. Therefore, they should be stored in their original sealed packaging in a closed and cool storage area.
- Always mix the products with low-speed electric mixers. To eliminate the risk of incomplete mixing, transfer the mixed product to another clean container and remix if necessary.
- Do not use any thinners other than those recommended by UNICA.
- The consumption rates stated in this application document are determined under ideal surface conditions. For applications of varying thicknesses, please consult the UNICA technical department.
- Prolonged contact with chemicals such as hydraulic oil, gasoline, diesel, antifreeze, can result in staining on the surface. In the event of contact with these chemicals, they should be cleaned from the surface promptly.

Health and Safety Information

Refer to the material safety documents of the relevant products for the safe use of products and disposal of waste.

NOTE

The explanations made on this technical page are based on test evaluations and results of the product according to relevant standards and are intended to provide guidance to applicators. Since labor, weather conditions, construction, equipment used, and other variables affecting the results are entirely beyond our control, UNICA does not provide any explicit or implied warranties regarding this material. UNICA only guarantees that the material complies with the product specifications, and its sole responsibility to the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. In no event shall UNICA be liable for any direct or incidental, special, or consequential injury, loss, or damage arising directly or indirectly from the material or work performed. UNICA is not responsible for any defects, alterations, or changes in the substrate on which the products are applied.









