

## L'UNICFLEX 2S

### Polyurethane Outdoor Walkway/Jogging Track

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#### System Description

L'unicflex 2S involves the application of a mixture of SBR and Prepolymer binder on the floor using a specific application tool to achieve a certain thickness, followed by the application of EPDM granules and Polymer binder, along with marking of lines to finish the process. L'unicflex 2S is a system that has been certified for compliance with DIN18045/6 sports flooring standards in our laboratories.

#### System Components and Consumption

Product	Product Info	Consumption(kg/m <sup>2</sup> )
UNIPU 045 1K	PU Primer for Concrete	0,150 kg
UNIPU 060 1K	PU Primer for Asphalt	0,150 kg
UNIPU 030 1K	PU Prepolymer Binder	1,100 kg
SBR Granül	1-4 mm SBR	5,200 kg
UNIPU 030 1K	PU Prepolymer Binderı	1,200 kg
EPDM	1-3,5 cm Colored EPDM	5,000 kg
**PU WB TOPCOAT 1K	PUD Water based UV Protective Colored/Clear Topcoat	0,300 kg
UNIPU OVERLINE 2K	PU Line Marking Paint	

Total Thickness Approximately 16 mm (8 mm SBR+8 mm EPDM)

\*\* It is an optional product that enhances the UV resistance of the EPDM coating..

#### Technicals

Tests	WA standart	DIN18035/6	+5°C	+23°C	+35°C
Vertical deformation	6-2,5	1,8	1,6	1,8	1,9
Force Reduction	35-50 %	40	42	43	45
Tensile Strength	>0,5 N/mm <sup>2</sup>	0,62			
Elongation at Break	>40 %	61 %			
Slip Resistance-wet	≥47 DIR A	62			
Ball Rebound	99 %				
Water Permeability	N/A	Impermeable			
Flammability		DIN51960 Class 1			

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**Surface Preparation**

The base surface designated for the L'unicflex 2S system, whether concrete or asphalt, must have completed a curing/drying period of at least 30 days and its moisture content should not exceed 3%. There should be no elevation differences on the concrete floor.

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

Hairline cracks, joints, and damaged areas on the concrete surface should be repaired and leveled with UNEPOX COMPOUND ST.

Another important point is that the concrete surface should be poured taking precautions against any moisture or water infiltration from below. If necessary, effective barrier membranes, fibers, or chemical moisture barriers should be used.

This application should be carried out by an application company approved by UNICA. After the surface preparation procedures described above, the application should be carried out according to the application instructions specified below.

**Application****Primer Application**

The primer to ensure compatibility with the subsequent coating component and the relevant base is a specially formulated single-component polyurethane - UNIPU 045 1K for concrete or UNIPU 060 1K for asphalt. Apply UNIPU 045/060 Primer as per BOYTEM's instructions with an airless paint sprayer or paint roller at a rate of 0.150 kg/m<sup>2</sup>-0.200 kg/m<sup>2</sup>.

**SBR+Prepolymer Application**

This coating layer (SBR granules + PU Binder) comprises a mixture of SBR granules and UNIPU 030 1K PU Binder. Mix SBR granules and UNIPU 030 1K using a low-speed specially designed mixer, apply the mixed material to the primed surface with a laying machine. Allow 16-24 hours for curing. The curing time may vary depending on environmental temperature and humidity conditions.

**EPDM+Prepolymer Application**

This coating layer (SBR granules + PU Binder) comprises a mixture of EPDM granules and UNIPU 030 1K PU Binder. Mix EPDM granules and UNIPU 030 1K using a low-speed specially designed mixer, apply the mixed material to the primed surface with a laying machine. Allow 16-24 hours for curing. The curing time may vary depending on environmental temperature and humidity conditions.

**PU WB TOPCOAT 1K Application (Optional)**

The application of PU WB TOPCOAT 1K provides better UV resistance and longevity to the EPDM layer, ready for use, preferably applied to the surface as a single coat with an airless paint sprayer. While being an optional product, Boytem strongly recommends using the product for the performance benefits it adds to the application.

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**UNIPU OVERLINE 2K (Track Line Paint)**

The most striking application of the track line for an athletics/walkway track installation. It should be applied by experienced applicators using appropriate equipment in accordance with suitable standards. UNIPU OVERLINE 2K is an aliphatic-based elastic line paint applied with road line painting equipment.

**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.

**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.

**Maintenance**

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 2S floor covering system should be applied by experienced application teams.
- Application should be carried out in 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.
- 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.

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- 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.