KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

POLTRACK PU JOGGING TRACK SYSTEM

Elastic, seamless, flexible colored flooring, ideal for jogging tracks in total thickness of 18mm.
It consists of a shock-pad base of **PU BINDER 1118** with **RECYCLED RUBBER 858**. Follows the PU, flexible pore filler coating **POLYSPORT STUCCO 1050**, and then the PU self-leveling coating, **POLYSPORT PU 1051**. Finally, a sealing PU, UV-resistant aliphatic top layer, **POLYSPORT 1056**, is applied in two crossing layers.
The success in the application depends on the right preparation of the underlay and use of the material.

Steps:

1. **PU PRIMER 870 - Special, polyurethane primer.**
   Applied by airless sprayer or brush on asphalt surfaces or on waterproof concrete surfaces without rising humidity issues.
2. **Mixture of PU BINDER 1118 and RECYCLED RUBBER 858 - Elastic, shock-absorbent, wet-pour system.**
   The **RECYCLED RUBBER 858** is in granulometry of 0.5-2mm. The mixture is applied by paving machine in thickness of 16mm.
3. **POLYSPORT STUCCO 1050 - Polyurethane, elastic, two-component pore filler.**
   Used for sealing porous wet-pour shock-pad sub-floors of sports floorings systems. Applied by flat trowel.
4. **POLYSPORT PU 1051** - **Polyurethane, self-leveling, two-component coat for outdoor sports surfaces**.
   It is combined with wet-pour, shock-absorbent, resilient rubber cushion as substrate to create multipurpose sports flooring systems. Pore filling with **POLYSPORT STUCCO 1050** precedes its application. Applied by V-notch trowel and the parallel use of spiked roller.
5. **POLYSPORT 1056 - UV-resistant, polyurethane, aliphatic, two-component top coating for outdoor sports floorings.**
   Applied, in two crossing layers by airless sprayer or short haired mohair roller.

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Preparation – Application

Applied only on dry asphalt and concrete surfaces (over 30 days old from date of placement) without rising humidity issues and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Priming of the surface with polyurethane primer **PU PRIMER 870** with an airless sprayer or brush**.** Consumption: 0,2 kg/m^2 in two layers.
- After 5-12 hours and when the primer is almost dry but not completely, application of the mixture of **PU BINDER 1118 and RECYCLE RUBBER 858** SBR granules with paver machine. The mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min until a uniform mass is obtained. Consumption for 16mm mixture: PU BINDER 1118 1,92 kg per square meters, RECYCKE RUBBER 858 9,6 kg per square meters.
- Afterwards when the surface of the mixture is dry (48-72 hours) follow the application of the PU pore-filler, **POLYSPORT STUCCO 1050** as a sealing layer with metal trowels, in two layers, to create a completely non-porous surface. Consumption: POLYSPORT STUCCO 1050 1,3-1,5kg/m^2 in two layers.
- The next day, depending ambient temperature, follows application of **POLYSPORT PU 1051**. Components A (resin) & B (hardener). The mixed material must be used within 20-30 minutes of mixing at 25ºC. The polyurethane mixture is poured on the floor and spread using V-notch trowel, 5,5mm. Consumption: 2,0 - 2,2 kg/m^2 in one layer.
- Following the application of **POLYSPORT PU 1051**, the self-leveling layer should be rolled using a special spiked roller to release any possibly entrapped air and avoid the formation of bubbles. Sanding of the surface should be done after drying.
- After the sanding the whole surface, follows the application of polyurethane UV-resistant, aliphatic two component resin **POLYSPORT 1056** in two cross layers by airless sprayer or by rollers. Consumption: 0,3kg/m^2 in 2 layers.

Important Remarks

- ✓ During temperatures over 40 degrees, ideal time for the application of **POLTRACK PU JOGGING TRACK** is between 22:00 and 09:00. The minimum bearing temperature during application and drying should be over 10ºC.
- ✓ In case the second layer of the PU pore filler **POLYSPORT STUCOO 1050** is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.

- ✓ In case the layer of PU self-leveling is applied after more than 24 hours of the application of the last layer of PU pore filler, then the whole surface must be sanded by a special sanding machine. After that the PU self-leveling can be applied.
- ✓ In case the second layer of PU top-coat is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
- ✓ The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours.

Substrate

Asphalt is the safer subfloor for sport floorings for sure and must be always preferred than concrete surfaces.

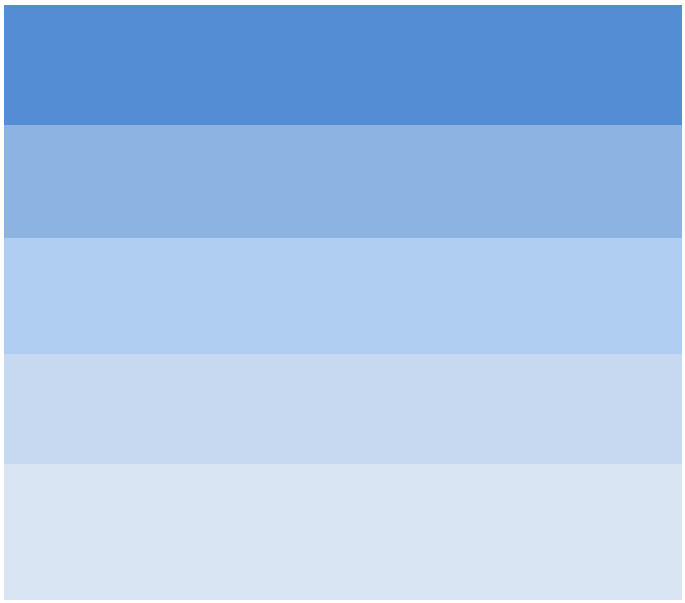
A. Asphalt Substrate

The asphalt must have a slope of 0.7-1% and must dry for at least 30 days so that all solvents from the asphalt can evaporate.

The asphalt sub-floor should be applied on well compacted 150mm road base sub-floor and asphalt should be laid in one layer (and not 2) in 6 to 8cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.

So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.

Asphalt Infrastructure



Fine asphalt base in thickness of 6cm with very fine aggregates by finisher

Asphalt primer

Good compaction by vibration

Fine gravel 10cm

Gravel stone in thickness of 15cm

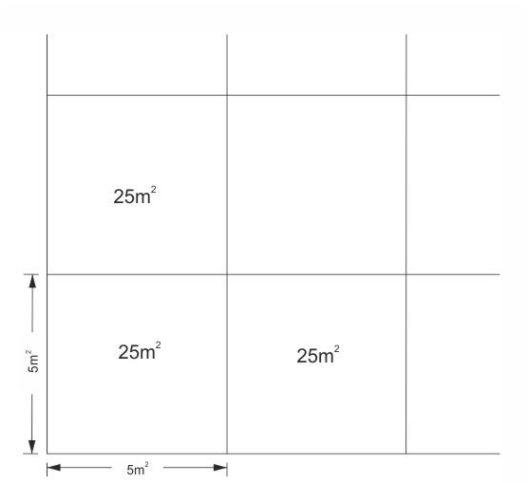
B. Concrete Surface

Concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.

Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open the pores accordingly and also a measurement by special instrument to measure humidity on the surface and in 10cm under the surface.

Generally concrete is a risky sub-floor and there may be problems with rising humidity, especially in areas where the sea level is really high and when the sea is close or in areas near greenery.

Always make expansion joints in large areas of concrete, to avoid uncontrollable cracks and failures. Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.



Substrate requirements

Concrete quality	at least C20/25
Age:	at least 40 days
Moisture content:	below 4%

Tools:

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