

## SYSTEM WET-POUR POLYFLEX PU – EX

Total thickness of 6mm – 14mm



**Outdoor highly resilient sport floorings system ideal for multipurpose areas, tennis, basketball, volleyball, handball, football courts, as well as any other outdoor sports court.** Combination of a mixture of PU Binder plus SBR granules in granulometry of 0.5mm – 2mm, applied by paver machine in thickness of 6mm – 14mm and polyurethane elastic top coating system in 2mm thickness.

### 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 from 6mm to 12mm or more.
3. **POLYSPORT STUCCO 1050 - Polyurethane, elastic, two-component pore filler.** Used for sealing porous wet-pour shock-pad sub-floor 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 1052 - UV-resistant, polyurethane, aliphatic, two-component top coating for outdoor sports flooring.** 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.

- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **PU PRIMER 870** for the proper adhesion on the sub-floor in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of the next material, in order to ensure proper adhesion. Avoid the creation of puddles of the material. Application is done with airless sprayer and brush. Consumption: 200-300gr/m<sup>2</sup> in two layers, depending on the absorption of the underlay.
- When the primer begins to dry (approximately 1 hour depending on the ambient temperature), follows the application of wet pour shock-pad by paver machine in the desired thickness or even by hand if the applicator is very experienced with a straightedge and a flat trowel, using also a cylinder for final compacting. The wet-pour shock-absorbent mixture consists of SBR granules in granulometry of 0.5-2mm and PU binder. It is strongly recommended the application of the shock-pad mixture during night hours in the Middle East countries during summer months.
- Sealing of wet pour rubber surface porosity using elastic pore sealer **POLYSPORT STUCCO 1050**. Care should be taken that the porosity of wet pour rubber subfloor should be totally covered using **POLYSPORT STUCCO 1050** is eliminated to avoid surface defects on the final surface of **POLYSPORT PU 1051**. Application is done with a flat trowel in two crossing layers. Consumption on wet pour shock-pad: 1,3-2,5 kg per square meter for 2 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 20°C. The polyurethane mixture is poured on the floor and spread using notched trowel, 5.5mm. Consumption: 2,2 kg per square meter.
- Following the application of **POLYSPORT PU 1051**, the self-leveling layer should be rolled using a special spiked roller in order to release any possibly entrapped air and avoid the formation of bubbles. Sanding of the surface should be done after drying
- The next day, depending ambient temperature follows application of finishing paint **POLYSPORT 1052**. **POLYSPORT 1052 is applied in 2 crossing layers by a short-haired mohair roller or by airless sprayer.** Consumption: 0,25 kg per square meter in 2 layers.

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## Important Remarks

- ✓ During temperatures over 40 degrees, ideal time for the application of **WET-POUR POLYFLEX PU – EX** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10°C.
- ✓ In case the second layer of PU pore filler 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.
- ✓ Working time of **SYSTEM WET-POUR POLYFLEX PU – EX** decreases when ambient temperature rises.
- ✓ All surfaces should be thoroughly cleaned from dust and residues prior each application.
- ✓ The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours.
- ✓ In case it gets damaged, it is simply repaired and recoated on the spot.

## 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.

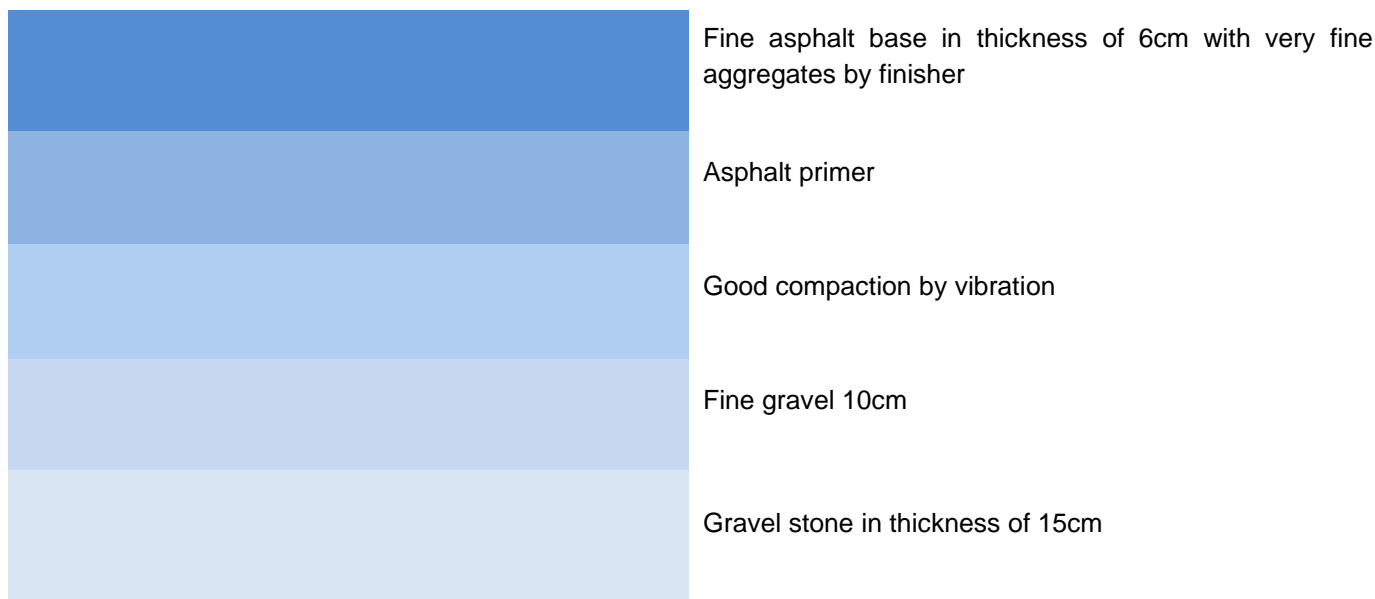
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## Asphalt Infrastructure



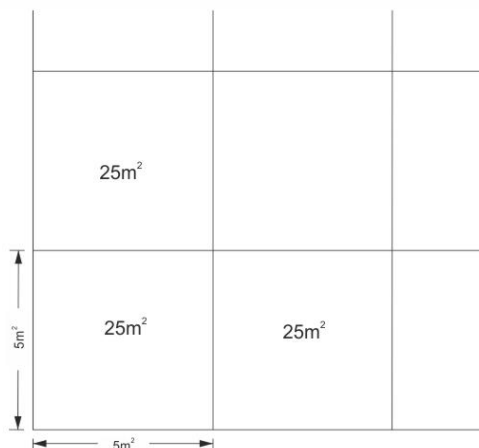
### B. Concrete Surface

**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.

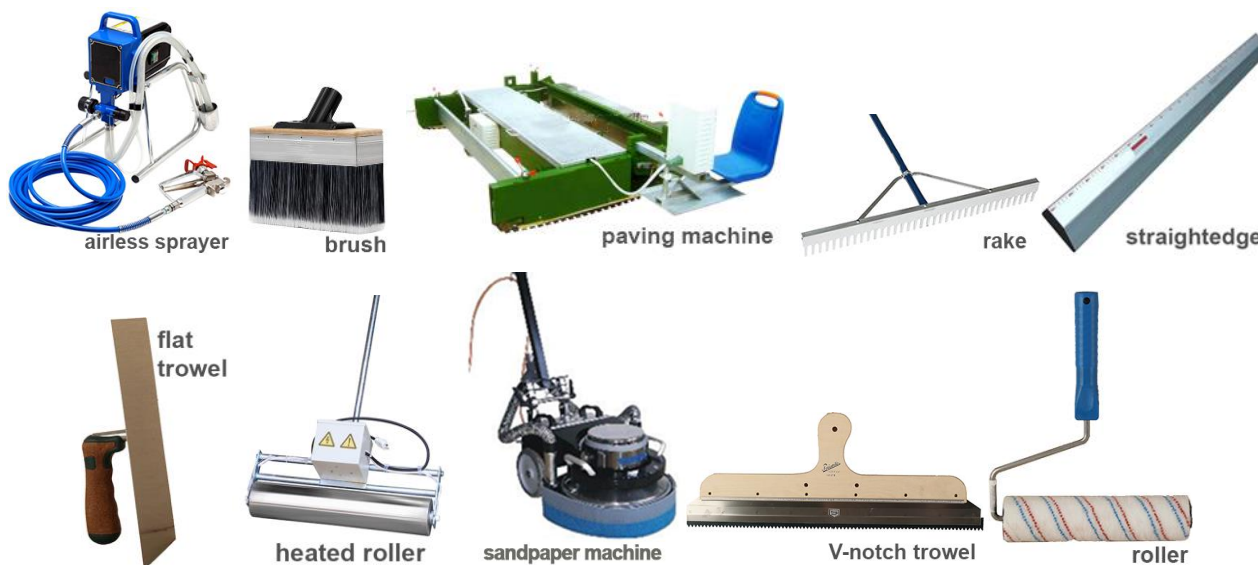
**Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures.** Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.



## Substrate requirements

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

## Tools:



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