SYSTEM POLYFLEX SILICON PU WT

Elastic, seamless flooring for indoor and outdoor use for all kind of sport floorings and areas, like multipurpose courts, basketball-volleyball courts, handball-badminton courts.

It offers a very competitive and quality solution for indoor and outdoor sport floorings with great shock absorbency.

Combination of a wet-pour mixture of PU BINDER and SBR granules in granulometry of 0,5-2mm and of a wet-pour system consisting of a filler coloured coating, **LIQUID CUSHION SP COARSE,** in 3 layers, followed by **LIQUID CUSHION SP FINE** in 2 layers and then 3 layers of **POLYFLEX COAT SP** and finally 2 layers of **POLYFLEX TOP SP** coating.

Steps :

1. **PU PRIMER 870 - Special, polyurethane primer.**
2. **Mixture of PU BINDER 1118 and RECYCLED RUBBER 858 - Elastic, shock-absorbent, wet-pour mixture.** The **RECYCLED RUBBER 858 is in granulometry of 0.5-2mm.**
3. **LIQUID CUSHION SP COARSE - Highly flexible, pasty, wet-pour cushion rubber flooring, with SBR granules, for sports flooring systems.**
4. **LIQUID CUSHION SP FINE - Highly flexible, pasty, wet-pour cushion rubber flooring, with SBR powder, for sports flooring systems.**
5. **POLYFLEX COAT SP - PU modified, elastic coating for sports floors systems.**
6. **POLYFLEX TOP SP - Polyurethane, aliphatic, two-component top coating for outdoor and indoor sport floorings.**

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^2 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-absorbent mixture 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 mixture to take place during night hours in the Middle East countries during summer months.
- Then follows the application of **LIQUID CUSHION SP COARSE**, highly flexible, pasty, wet-pour cushion rubber flooring with SBR granules in granulometry of 0.4-0.8mm, which is applied by squeegee in 3 crossing layers. Consumption: 1,5kg/m^2 in 3 layers.
- And then follows the **LIQUID CUSHION SP FINE**, highly flexible, pasty, wet-pour cushion rubber flooring with SBR in granulometry of 0.1-0.4mm, applied by squeegee in 2 crossing layers. Consumption: 0,8kg/m^2 in 2 layers.
- The elastic, PU modified coating **POLYFLEX COAT SP** is applied in 3 crossing layers by squeegee, beginning from one edge of the area, going down to the other edge in one squeegees strip, then turning back on the opposite direction overlapping the previous strip by 20-30 cm or so and continuing the same way. Possible traces of the squeegee edges will have to be smoothed out with the squeegee or other tool (e.g. trowel). The next layer follows the other after the previous starts to dry. Sanding of the surface should be done after the first layer is dried.

  Depending on the ambient temperature **POLYFLEX COAT SP** is diluted with 3-4% water, prior to application, in order to achieve better fluidity. Consumption: 1,8 kg/m^2 in 3 layers.
- Before the application of the next material and after the drying of the last layer of **POLYFLEX COAT SP** the surface must be sanded with a special sanding machine with sandpaper of grade 100-120.

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- The next day, depending on the ambient temperature, follows application of finishing paint **POLYFLEX TOP SP** in 2 crossing layers by a short-haired mohair roller or even better by airless sprayer. Consumption: 0,3 kg per square meter in 2 layers.

Important Remarks

- During temperatures over 40 degrees, ideal time for the application of **POLYFLEX SILICON PU-WT SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10°C.
- 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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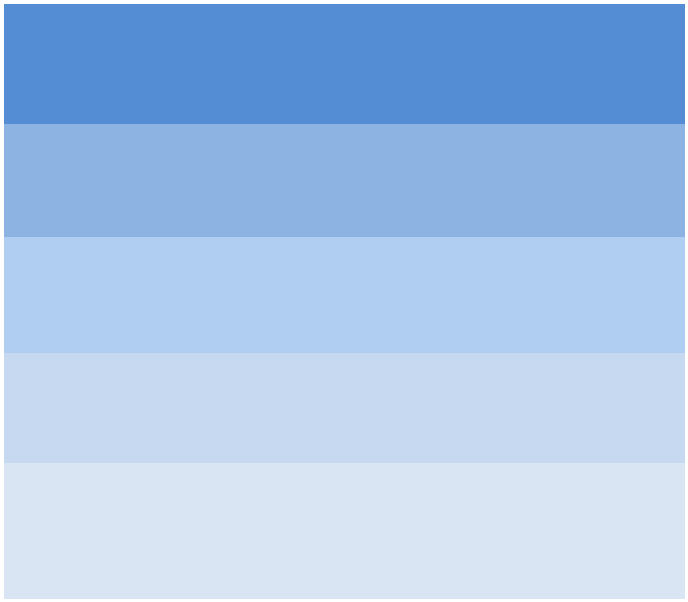
Asphalt Infrastructure



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, 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.

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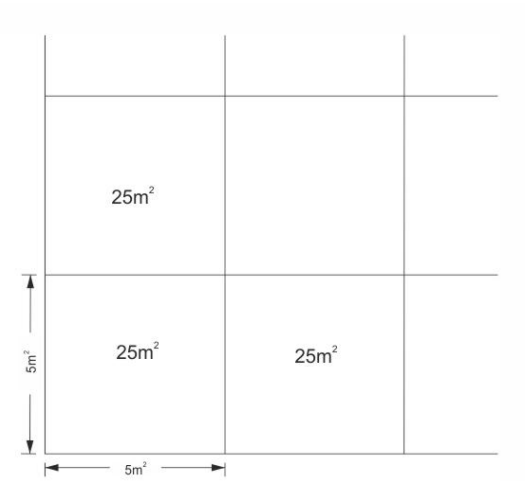
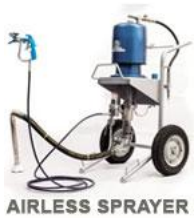


SUBSTRATE REQUIREMENTS	Concrete quality	at least C20/25
	Age:	at least 40 days
	Moisture content:	below 4%

Tools:


AIRLESS SPRAYER


BRUSH


FLAT TROWEL


PAVING MACHINE


STRAIGHTEDGE


CYLINDER


SQUEEGEE


SANDING MACHINE


SHORT HAIRED MOHAIR ROLLER

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Colors: Following colorchart.

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KDF

Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

The colors may vary slightly from the original due to digital representation.

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