

SYSTEM SAFEPOL-UV



Very elastic shock-absorbent, cushion, wet-pour rubber flooring used as subfloor before exterior acrylic coatings and polyurethane coatings and as competitive sports courts system in combination with PU resistant top coating POLYSPORT XP 1069.

Consists of a mixture of **RECYCLED RUBBER 858** (84% by weight) with **PU BINDER 1118** (16% by weight) applied by paving machine or by trowel with the parallel use of a cylinder (10kg).

It can create many designs and patterns since it is over-coated by the special UV-resistant paint **POLYSPORT XP 1069** in various colors.

Applied in total thickness of 8mm to 20mm, depending on the elasticity needed.

Steps :

1. **PU PRIMER 870 - Special, polyurethane primer.** Applied by airless spray or brush on asphalt surfaces or on waterproof concrete surfaces without rising humidity issues.
2. **Mixture of PU BINDER 1118 plus RECYCLED RUBBER 858.** Applied by paving machine or by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting. Applied in thickness of 8mm up to 20mm.
3. **POLYSPORT XP 1069 - UV-resistant, two-component universal, mat, top coating for the protection of EPDM/SBR granules.** Applied in two crossing layers by airless sprayer or short haired mohair roller on the surface in the desired color, as dual protection from UV sunlight and color fading while giving the possibility to create different designs and patterns.

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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 the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-300 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the **PU BINDER 1118** and **RECYCLED RUBBER** mixture (**SAFEPOL**), in order to ensure proper adhesion, especially on the edges and endings of the flooring.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER** (mixture **SAFEPOL**). Following, the mixture is applied on the surface manually, using rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15 kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 7,2 kg/m²/cm.
- Following the application of **POLYSPORT XP 1069 – UV-resistant paint**. Sprayed in two cross layers by airless spray on the surface in the desired color as colored UV protection of the surface, to create different designs and patterns and last for many years.

Important Remarks

- ✓ During temperatures over 35 degrees, ideal time for the application of **SYSTEM SAFEPOL-UV** 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.

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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.

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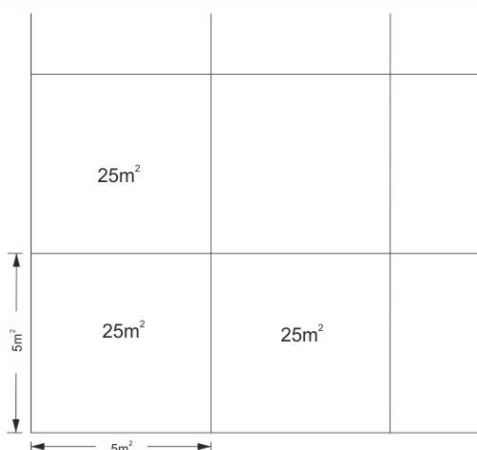


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Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open 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%

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