

PLAYPREM

Certified system according EN 1177 standards by Labosport



Elastic safety wet-pour flooring ideal for children playground floorings, applied at site in various thickness from 5cm-20cm.

Consists of a first base layer of **recycled rubber CHUNKS** mixed with **PU BINDER 1118 (SUPER SAFEPOL** base layer), which follows a second layer of **recycled rubber granules** in granulometry of 1-3mm mixed **PU BINDER 1118 (SAFEPOL layer)**. Then a third layer is applied on top, consisting of **epdm granules** (granulometry of 1-3mm) mixed with **PU BINDER** code 1118, (**SAFEPOL MULTICOLOR** layer). The final top coating over the epdm surface is the UV-resistant polyurethane aliphatic coating **POLYSPORT 1052** in two crossing layers.

PLAYPREM can create many designs and patterns in a variety of colors. It is applied in 5cm-20cm thickness, even on compacted, clean, dry gravel and on cement or asphalt surfaces.

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Steps :

1. **PU PRIMER 870** – Polyurethane Primer. Applied by brush or airless spray.
2. **SUPER SAFEPOL** – Mixture of recycled rubber **CHUNKS** and **PU BINDER 1118**.
3. **SAFEPOL** - Mixture of recycled rubber granules in granulometry of 1-3mm and **PU BINDER 1118**.
4. **SAFEPOL MULTICOLOR** – Mixture of **EPDM 856** in granulometry of 1mm- 3mm and **PU BINDER 1118**.
5. **POLYSPORT 1052** - UV-resistant polyurethane aliphatic coating.

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Preparation – Application

Applied on dry, stable surfaces, free of materials that might prevent bonding e.g. dust, loose particles etc (in case of asphalt or concrete). 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.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-250 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 playground flooring.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER CHUNKS** (mixture **SUPER SAFEPOL layer**). 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: 6 kg/m²/cm
- After 24 hours at least, follows the application of the mixture of **PU BINDER 1118** and **recycled rubber granules in thickness of 10 mm to fill the gaps of the rubber chunks**, (mixture **SAFEPOL layer**) using rake for spreading, (wooden) straightedge for initial smoothing, 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 kg/m²/cm.
- Then, after 24 hours at least, follows the application of the mixture of **PU BINDER 1118** with epdm **granules in thickness of 10 mm** (mixture **SAFEPOL MULTICOLOR**) using rake for spreading, (wooden) straightedge for initial smoothing, trowel for final smoothing and compacting, cylinder weighing 20 kg for final compacting (cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 12 kg/m²/cm.
- In case of any small irregularities on the surface may be removed by rolling the surface using a metallic cylinder when its still fresh.
- It is highly recommended, especially in hot climates (like climates in Middle East countries, where sun exposure is too high) that the surface is protected from UV with two cross-layers of **POLYSPORT 1052**, a UV-resistant polyurethane paint, applied by airless spray on the surface in the desired color as colored UV protection.

Important Remarks

- ✓ During summer or during temperatures over 35 degrees, ideal time for the application of **PLAYPREM** is between 21:00 and 06:00 and temperature less than 30°C, while in the winter, 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.

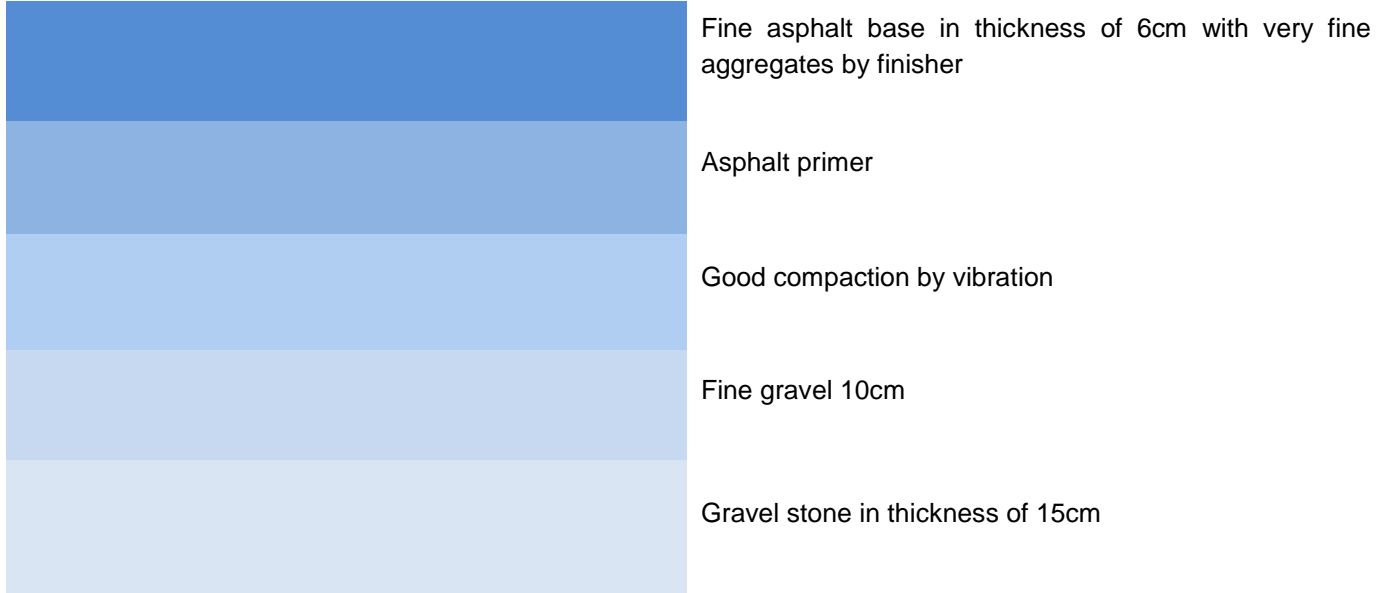
A. Asphalt Substrate

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.

Asphalt Infrastructure



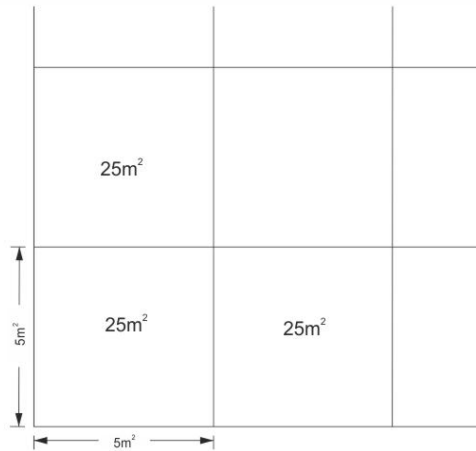
B. Concrete Surface

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.



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

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Tools:



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KDF

Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE



E1



E2



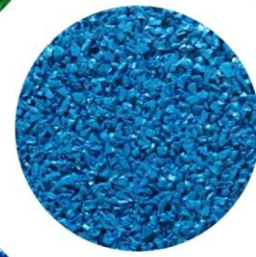
E9



E10



E3



E11



E4



E5



E12



E13



E6



E14



E7



E8



E15



E16



E17



E18



E19

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

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SPORTS & PLAY