

## POLTRACK FULL PU SYSTEM Running track spike-proof system



Synthetic outdoor system for running tracks in stadiums in total thickness of 15mm.

It is applied on fine asphalt or smooth, waterproof concrete, without rising humidity issues. After laying a PU primer for adhesion, follows the first layer (base layer), which consists of the FULL-PU colored polyurethane coating **POLAPLAST P28** and **RECYCLED RUBBER 858** broadcasted on top (fresh-on-fresh), a second layer comprising again the FULL-PU colored polyurethane coating **POLAPLAST P28** laid on the surface and **RECYCLED RUBBER 858** broadcasted on top (fresh-on-fresh) and the third layer (surface layer) is the full-PU colored polyurethane coating **POLAPLAST P28** laid on the surface and EPDM granules broadcasted on top to finish it off (fresh-on-fresh).

**Certified system by WORLD ATHLETICS.**

### Steps :

1. POLAPLAST P10 - Polyurethane primer.
3. Application of POLAPLAST P28 FULL PU coating.
4. Broadcasting of RECYCLED RUBBER 858 SBR granules 1-4mm.
5. Application of POLAPLAST P28 FULL PU layer.
6. Broadcasting of RECYCLED RUBBER 858 SBR granules 1-4mm.
7. Application of POLAPLAST P28 FULL PU coating.
8. Broadcasting of EPDM granules 1-3mm.

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## Preparation – Application

Applied on dry asphalt surfaces (30 days old at least) or smooth concrete surfaces (30 days at least old) without rising humidity issues and 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 **POLAPLAST P10** applied by airless spray or brush. The subsequent base layer should be constructed while **POLAPLAST P10** is still sticky (wet on wet procedure).
- Application by notched trowel, 5.5mm, and the parallel use of a spiked roller, of one layer of the specially, modified, polyurethane self-leveling coating **POLAPLAST P28**. Consumption: 3.2kg/m<sup>2</sup>.
- Broadcasting of **RECYCLED RUBBER 858** SBR granules (1-4mm granulometry) while **POLAPLAST P28** layer is still fresh. Consumption: 3kg/m<sup>2</sup>.
- Next day (or between 12-48 hours, depending on temperature and humidity conditions), removal of the unstuck SBR rubber granules and application by notched trowel, 5.5mm, and the parallel use of a spiked roller, one layer of the specially, modified polyurethane self-leveling material **POLAPLAST P28**. Consumption: 3.2kg/m<sup>2</sup>.
- Broadcasting of SBR recycled rubber granules (1-4mm granulometry) while **POLAPLAST P28** is still fresh. Consumption: 2.60kg/m<sup>2</sup>.
- Next day (or between 12-48 hours, depending on temperature and humidity conditions), removal of the unstuck SBR rubber granules and application by notched trowel, 5.5mm, and the parallel use of a spiked roller, one layer of the specially, modified polyurethane self-leveling material **POLAPLAST P28**. Consumption: 3.55kg/m<sup>2</sup>.
- Broadcasting of EPDM granules (1-3mm granulometry) while **POLAPLAST P28** is still fresh. Consumption: 4.2kg/m<sup>2</sup>
- After the top layer has cured (depending on conditions, this will usually take 9-12 hours at 20°C), it can be walked on. After 2 days, the top coating of **POLTRACK FULL PU SYSTEM** is fully cured and can be put into service, after proper line marking is performed with the use of special two component polyurethane paint.

## Important Remarks

- ✓ During temperatures over 40 degrees, ideal time for the application of **POLTRACK FULL PU 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.

## Substrate

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

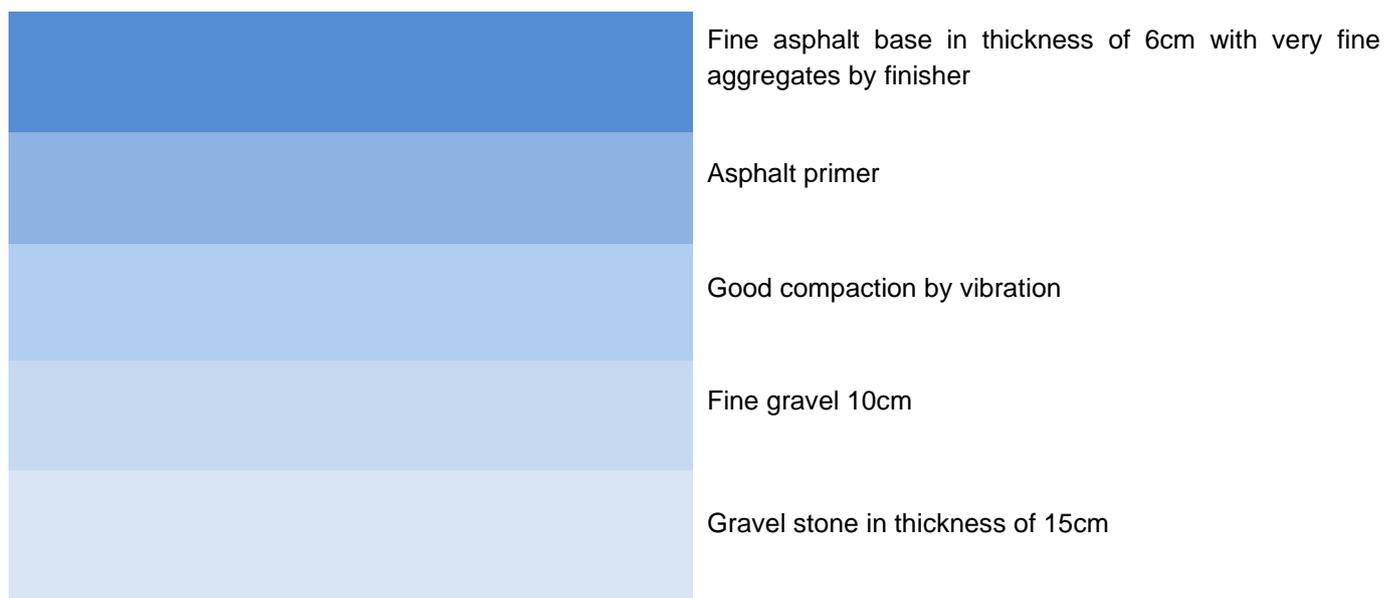
### **A. Asphalt Substrate**

**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



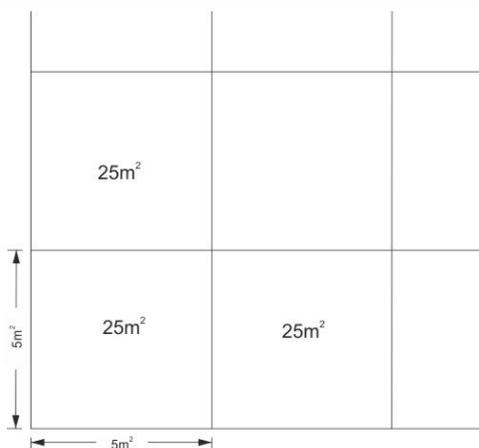
## B. Concrete Surface

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.



### Substrate requirements

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

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## Tools:



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