

POLTRACK EQUESTRIAN SYSTEM

Seamless Rubber Flooring for horse stalls, barns, paddocks.

Total thickness of 15mm – 50mm



Synthetic outdoor equine system in total thickness of 15 - 50mm. It is applied on fine non-porous asphalt or smooth, waterproof concrete without rising humidity issues, with first cushion layer (base layer) of 13-18mm mixed and applied at site (consisting of **RECYCLED RUBBER** in different granulometries, 1-3mm and 0.5-1.5mm and SBR dust as well and the polyurethane binder **POLAPLAST P13**) and then of, as second layer (sealing layer), the polyurethane semi-flexible, pore-sealing material **POLAPLAST P24** on top of the cushion mixture. Then follows the third layer (surface layer) with the full-PU colored polyurethane self-leveling, semi-elastic **POLAPLAST P25** and finally the top coating the UV-resistant polyurethane aliphatic coating **POLYSPORT 1053** in two layers.

Priming with **POLAPLAST P10** precedes all the application.

Steps:

1. **POLAPLAST P10** - Polyurethane primer.
2. **Mixture of POLAPLAST P13 and RECYCLED RUBBER** applied by paving machine.
3. **POLAPLAST P24** - Polyurethane sealing layer.
4. **POLAPLAST P25** - Full-PU colored polyurethane self-leveling layer.
5. **POLYSPORT 1053** - UV-resistant polyurethane aliphatic top coating.

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 **POLAPLAST P10** for the proper adhesion on the sub-floor. Application of one or more layers until the surface is saturated. Avoid the creation of puddles of the material. Consumption: 0,3 kg/m² in two layers, depending on the absorption of the underlay.
- **Base layer (Mixture of POLAPLAST P13, RECYCLED RUBBER** in different granulometries, 1-3mm and 0.5-1.5mm and SBR dust), is applied by special paving machine or by hand in case of very experienced application team. Consumption: 12,1 kg/m².
- Then after the shock-pad surface is completely dry (48 hours) follows the sealing layer with **POLAPLAST P 24** which is applied by metal trowel and then after the drying and the sandpaper of any irregularity on the final surface comes the application of the self-leveling surface layer **POLAPLAST P25** by notched trowel in more than 2mm total thickness. Consumption **POLAPLAST P24**: 1,30kg/m² and consumption of **POLAPLAST P 25** : 2,3kg/m², depending on the absorption of the underlay.
- After that PU selfleveling layer **POLAPLAST P 25**, is dry then is applied the finishing UV resistant layer **POLYSPORT 1053** by airless spray-gun or roller in 2 crossing layers and in glossy or mat finish. Consumption **POLYSPORT 1053** : 0,25kg/m²
- In case of any demand for anti-slip surface, after the application of the full-PU colored polyurethane self-leveling material **POLAPLAST P25** follows broadcasting of quartz sand 0.3-0.5mm (4kg/m²). Then the surface is coated with the UV-resistant polyurethane aliphatic top coating **POLYSPORT 1053**.

Important Remarks

- ✓ During summer or during temperatures over 35 degrees, ideal time for the application of **POLTRACK EQUESTRIAN SYSTEM** 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.

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 all solvents from the asphalt evaporate.**

The asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer (and not 2) in 6 to 8 cm 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.

B. CONCRETE SURFACES

Concrete surface must be powerroweled and must be smooth with a slope of 0,7-1%.

Then concrete must dry at least for 40 days and then the application takes place if there is no arising humidity for the subfloor. Before the application takes place, there must **be a proper gridding** of the surface by a grinder machine to open the porous 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 subfloor and there may be problems **with arising humidity, especially in areas where the sea level is really high and when the sea is close.**

Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures.