

POLTRACK EQUESTRIAN SYSTEM

Seamless Rubber Flooring for horse stalls, barns, paddocks.

Thickness of 20mm



Synthetic, outdoor equine system in total thickness of 20 mm for horse stalls, barns, paddocks etc.

It consists of a first cushion layer (base layer) which is a mixture of the polyurethane binder **POLAPLAST P13** with **RECYCLED RUBBER 858** in various granulometries (2-4mm, 0.8-2.5mm and SBR dust), mixed and applied at site, followed by a second layer (sealing layer) the polyurethane semi-flexible, pore-sealing material **POLAPLAST P24** on top of the cushion mixture. Then follows the surface layer 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.

For anti-slip surface, after the application of the full-PU colored polyurethane self-leveling material **POLAPLAST P24** follows a broadcasting of quartz sand 0.1-0.4mm (3-4kg/m²). Then the surface is coated with the UV-resistant polyurethane aliphatic top coating **POLYSPORT 1053**.

Certified system by KIWA-ISA Sport Institute.

Steps:

1. **POLAPLAST P10** - Polyurethane primer.
2. **Mixture of POLAPLAST P13 and RECYCLED RUBBER** applied by paving machine.
3. **POLAPLAST P24** - Polyurethane sealing layer in two layers (with a polyester net between the two layers).

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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.

- **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.
- **The base layer (Mixture of POLAPLAST P13, RECYCLED RUBBER 858** in different granulometries, 2-4mm, 0.8-2.5mm and SBR dust), is applied by a special paving machine or by hand in case of very experienced application team. Consumption: 14,04 kg/m² for 18 mm thickness.
- Then after the shock-pad surface is completely dry (48 hours) follows the sealing layer with **POLAPLAST P24**, in two layers, which is applied by metal trowel. A polyester net is applied between the first and second layer of **POLAPLAST P24**. Consumption: 1,30kg/m² and consumption
- Then after the drying and the sandpaper of any irregularity on the final surface follows the application of the self-leveling surface layer **POLAPLAST P25** with a notched trowel in more than 2mm total thickness. Consumption: 2,3kg/m², depending on the absorption of the underlay.
- After that PU self-leveling layer **POLAPLAST P25**, 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 40 degrees, ideal time for the application of **POLTRACK EQUESTRIAN SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10°C.

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- ✓ The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours. In case the second layer of PU pore filler is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
- ✓ In case the layer of PU self-leveling is applied after more than 24 hours of the application of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU self-leveling can be applied.
- ✓ In case the second layer of PU top coat is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
- ✓ 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.

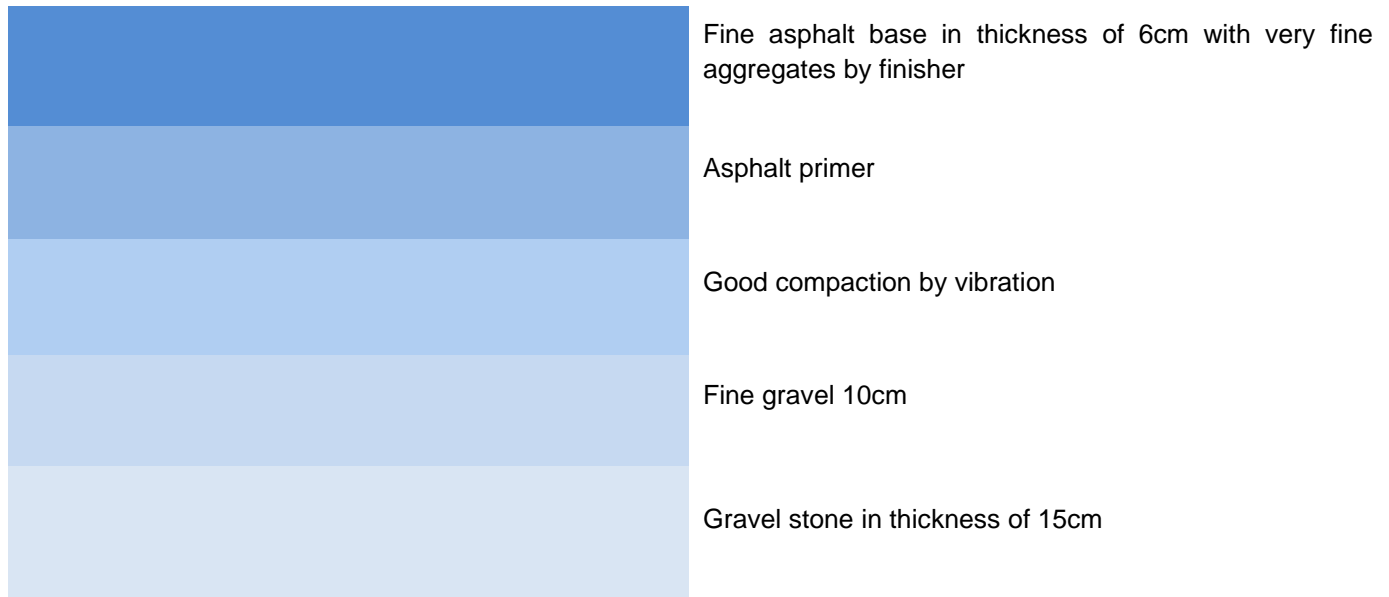
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Asphalt Infrastructure



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.

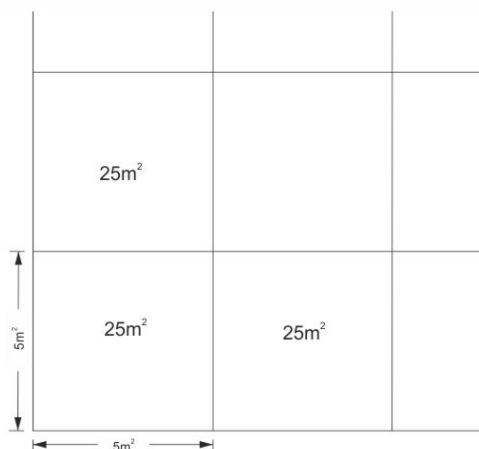
Always make expansion joints in large areas of concrete, to avoid uncontrollable cracks and failures. Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.

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Substrate requirements

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

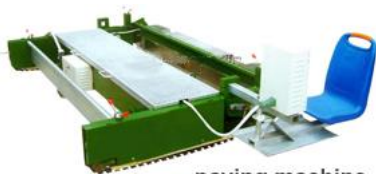
Tools:



airless sprayer



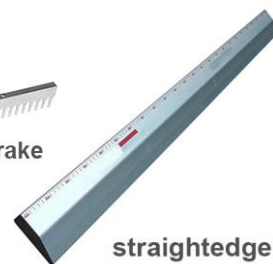
brush



paving machine



rake



straightedge



flat trowel



V-notch trowel

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