POLTRACK ROLL-SANDWICH SYSTEM

Certified by WORLD ATHLETICS

Synthetic outdoor system for running tracks in total thickness of 14.5mm.

It is applied on fine asphalt or smooth, waterproof concrete, without rising humidity issues. Consists of: a first, base layer, the prefabricated shock-pad **ISOPOL 854**, a second layer (sealing layer) the colored, polyurethane, sealing coating **POLAPLAST P22** on top of the rolls, and a third layer (surface layer) the full-PU colored polyurethane coating **POLAPLAST P20**, before broadcasting EPDM granules on top to finish it off.

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Steps

1. **PU FLEX 140 - Special, polyurethane adhesive.**
   Used for the application of ISOPOL 854 shock-pads or other prefabricated shock-absorbent rolls made from recycled rubber or EPDM granules. Applied by V-notch trowel.
2. **ISOPOL 854 - Shock-pad in rolls.**
   Elastic, prefabricated shock-pad made of recycled rubber providing shock-absorbency. Used as cushion substrate before the application of polyurethane or acrylic systems.
3. **POLAPLAST P22 - Colored polyurethane sealing layer.**
   Applied by flat trowel.
4. **POLAPLAST P20 - Colored, polyurethane full-PU, self-leveling surface layer.**
   Applied by V-notch trowel and the parallel use of spiked roller.
5. **Broadcasting EPDM granules in granulometry 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 arising 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.
- Application of polyurethane glue, **PU FLEX 140**, with V-notch trowel with 3mm teeth. Consumption: 1kg/m2.
- Place the **ISOPOL 854** rolls on the floor in their final positions without gluing them. Lift each side of each roll and apply the PU glue by a V-notch trowel with 3mm notches and then glue the rolls immediately without waiting. In case there are small bulges (humps, swollen parts) on the roll after its application, you'll have to tear it around the edge of the hump without removing it completely, raise that small part, put some PU glue underneath and glue the hump part again, making sure this time it's flat. Weights such as sand bags have to be used on the edges, corners and seams of the shock absorbent roll surface installation until the PU glue is cured. Then you let everything dry. Do not overlap the rolls but bring them as close together as possible to eliminate gaps. The usage of a light cylinder (10-15kg maximum) will help to compact the rolls on the floor.
  It is recommended that the joints (only) are covered flush with **ELASTOTURF 851** or **PU FLEX 140** with a flat trowel (or a brush) along their whole length, so that the surface is leveled out. Next day the joints are ground lightly with sandpaper or other grinding device to smooth out the joints with the rest of the surface and create the required roughness.
- Follows the application of **POLAPLAST P22** a colored, polyurethane, sealing coating, in 2 crossing layers by a flat metal trowel. Consumption 0,8 kg per square meter for 2 layers.
- After 18-24 hours and when the pore filler has dried the top coating of the **POLTRACK SANDWICH SYSTEM, POLAPLAST P20** is applied in one layer by a V-notch trowel (with 5-6mm notches). Consumption 2,5 kg per square meter.
- Then on the wet fresh PU self-leveling surface follows the broadcasting of the EPDM granules (granulometry 1-3mm) with consumption 3,6 - 4 kg /m^2.
- 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 SANDWICH IN ROLLS 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 SANDWICH IN ROLLS SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10ºC.
- ✓ 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.

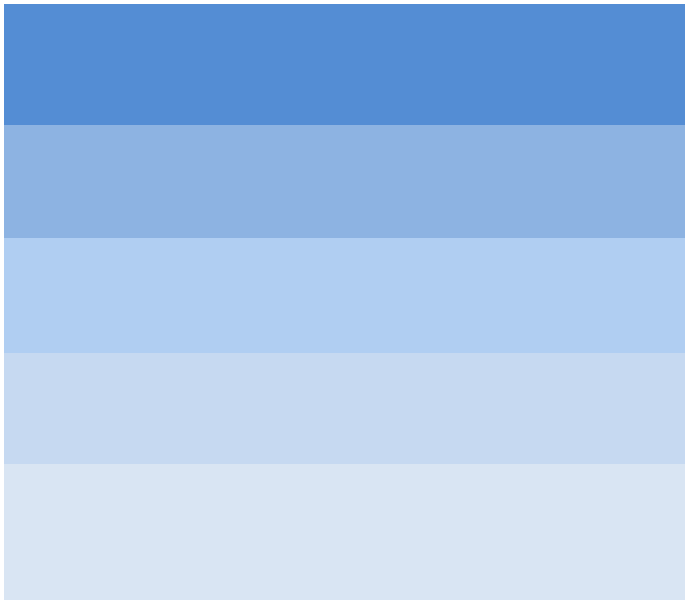
A. Asphalt Substrate

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



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

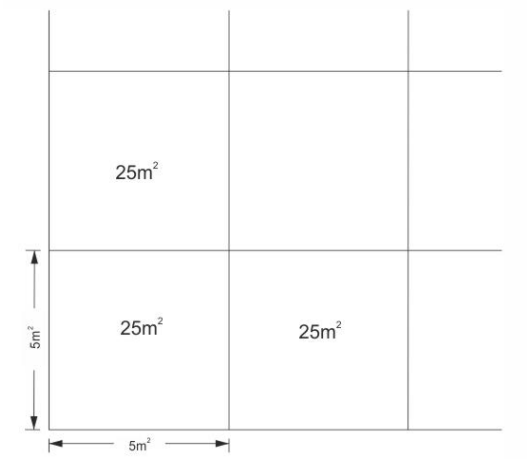
B. Concrete Surface

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.

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%

Tools: