

## SYSTEM POLYFLEX PU - IN Total thickness of 6mm – 16mm

CERTIFIED BY LABOSPORT



Indoor highly resilient sports flooring system ideal for multipurpose halls, gym floors, tennis, basketball, volleyball, handball, futsal courts, as well as any other indoor sports court. Combination of prefabricated shock-pad and polyurethane coatings in 6mm – 16mm average total thickness.

Certified by LABOSPORT according to EN 14904.

### Steps:

- 1. PU FLEX 140 - Special, polyurethane, two-component adhesive.** It is applied, with a V-notch trowel (3mm), on dry waterproof surfaces of concrete, without rising humidity issues or asphalt. Used for the application of **ISOPOL 854** shock-pad or other prefabricated shock-absorbent rolls made from recycled rubber or EPDM.
- 2. ISOPOL 854 - Shock-pad in rolls.** Elastic, prefabricated shock-pad made of recycled rubber providing shock-absorbency, in thickness of 4mm up to 12mm. Used as cushion substrate before the application of polyurethane or acrylic systems.
- 3. POLYSPORT STUCCO 950 - Polyurethane, elastic, two-component pore filler.** Used for sealing porous prefabricated subfloor of sports flooring such as **ISOPOL 854** or wet-pour cushion shock-pad. Applied by flat trowel.
- 4. POLYSPORT PU 951 - Polyurethane, self-leveling, two-component coating for indoor sports surfaces.** It is combined with **ISOPOL 854** as substrate to create multi-purpose shock-absorbent resilient sports flooring

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- The next day, depending ambient temperature follows application of finishing paint **POLYSPORT 952 in 2 crossing layers by a short-haired mohair roller or even better by airless sprayer**. Consumption: 0,25 kg per square meter in 2 layers.

## Important Remarks

- ✓ In case our sport systems **POLYFLEX PU-IN & WET-POUR POLYFLEX PU-IN** are going to be used for events like school gatherings, speeches or any other event apart from sport events (games, sport contest etc) then the surface needs to be protected with special modular portable flooring above 20mm thickness. Same is valid in case of weightlifting areas in gyms.
- ✓ During temperatures over 40 degrees, ideal time for the application of **POLYFLEX PU - IN SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10°C.
- ✓ 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 topcoat 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.**

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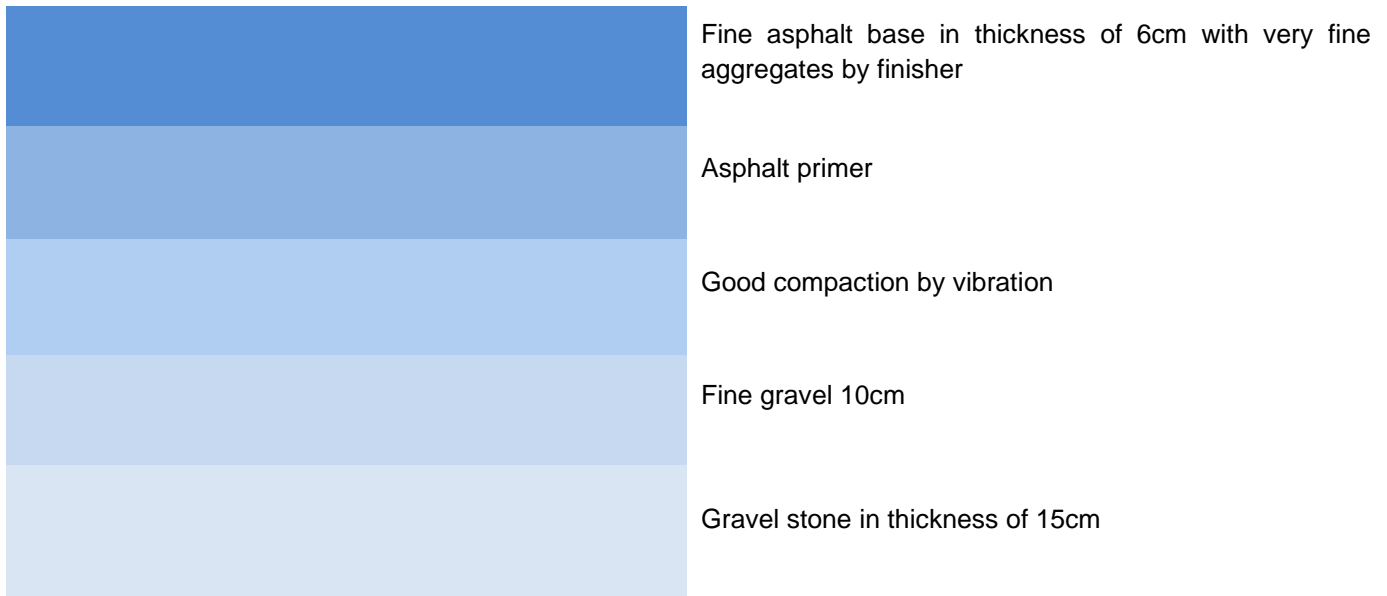
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The asphalt sub-floor should be applied on well compacted 150mm road base sub-floor and asphalt should be laid in one layer (and not 2) in 6 to 8cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.

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

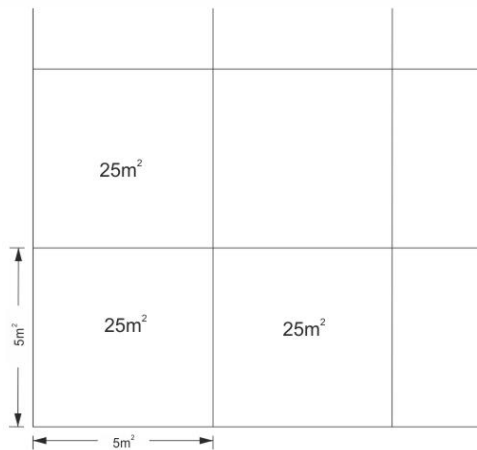
Concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.

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, 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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# KDF

Sports Flooring Systems & Building Materials  
50 YEARS OF EXPERIENCE

## Tools:



V-notch trowel



flat trowel



spiked roller



sandpaper machine



roller



airless sprayer

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