SYSTEM WET – POUR POLYFLEX AEL – IN

Total thickness of 8mm – 14mm

Indoor highly flexible shock-absorbent, acrylic sports flooring system, ideal for multipurpose halls, gym floors, tennis, basketball, volleyball, handball, footsal courts, as well as any other indoor sports court.
Combination of a mixture of PU BINDER 1118 and RECYCLED RUBBER 858 - SBR granules in granulometry of 0.5-2mm, applied by paver machine in thickness of 6mm up to 14mm, with acrylic-based and polyurethane-based coatings.

Steps:

1. **PU PRIMER 870 - Polyurethane primer.** Applied by airless sprayer or brush on asphalt surfaces or on waterproof concrete surfaces without rising humidity issues.
2. **Mixture of PU BINDER 1118 and RECYCLED RUBBER 858(minimum 6mm) - Elastic, shock-absorbent, wet-pour mixture.**
   The **RECYCLED RUBBER 858** is in granulometry of 0.5-2mm. Applied by paver machine in thickness from 6mm up to 14mm or more.
3. **ELASTOTURF 851S - Acrylic, elastic, smooth, coating for sports floors systems.** Consists of acrylic resins, powder quartz sand and special improver. It is combined with **ISOPOL 854** as substrate to create multi-purpose sports flooring systems. Highly resistant to adverse weather conditions (snow, frost, heat waves etc.) after drying. Applied by squeegee in three layers at least.
4. **POLYSPORT 952 - Polyurethane, aliphatic, two-component top coating for indoor sport floorings.**
   Applied, in two crossing layers by airless sprayer or short haired mohair roller.

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Preparation – Application

Applied only on dry waterproof concrete surfaces (over 40 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 **PU PRIMER 870** for the proper adhesion on the sub-floor. Application of two or more layers in sections each time, right before the application of the next material, in order to ensure proper adhesion, until the surface is saturated. Avoid the creation of puddles of the material. Consumption: 200-300gr/m^2 in two layers, depending on the absorption of the underlay.
- When the primer begins to dry (approximately 1 hour depending on the ambient temperature), follows the application of wet-pour shock-absorbent mixture by paver machine in the desired thickness or even by hand if the applicator is very experienced, with a straightedge and a flat trowel, using also a cylinder for final compacting**. The wet-pour shock-absorbent mixture consists of SBR granules in 0.5-2.0 mm granulometry and PU binder**. It is strongly recommended the application of the mixture during night hours in the Middle East countries during summer months.
- As soon as the mixture dries (48-72 hours depending on the ambient temperature), follows the application of **ELASTOTURF 851S in at least 3 crossing layers.**
- Depending on the ambient temperature **ELASTOTURF 851S** is diluted with 5-6% up to 10% water, prior to application, in order to achieve better fluidity. It is applied in three or more coatings by squeegee, depending on the desired thickness. The next layer follows the other after the previous starts to dry (approximately 24 hours depending on the ambient temperature), Consumption: 3,5-3,8 kg/m^2 (3 layers).
- 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: 0,35 kg per square meter in 2 layers.

Important Remarks

- ✓ During temperatures over 40 degrees, ideal time for the application of **WET-POUR POLYFLEX AEL-IN SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10^{o}C.
- ✓ 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.

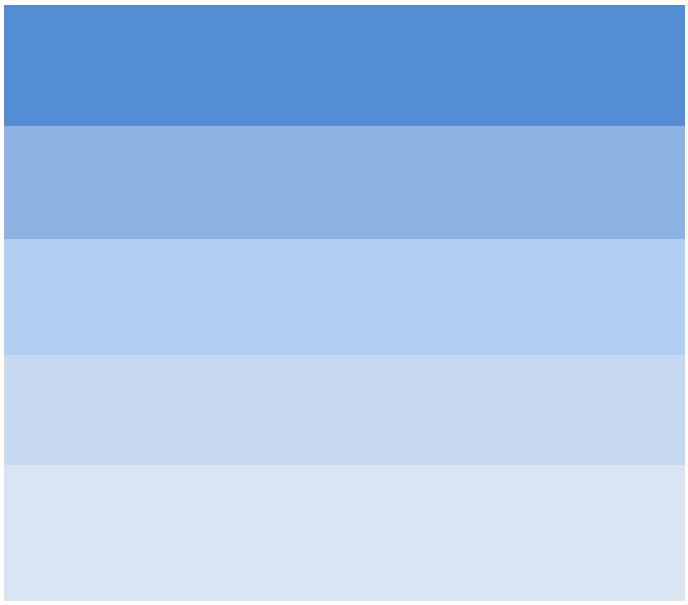
A. Asphalt Substrate

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.

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

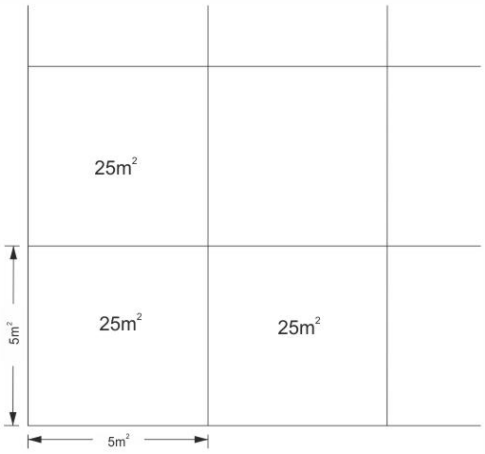
B. CONCRETE SURFACES

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

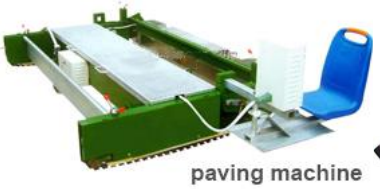
Concrete quality	at least C20/25
Age:	at least 40 days
Moisture content:	below 4%

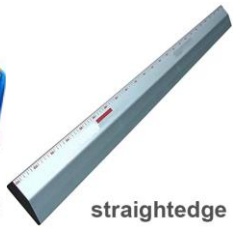
Tools:


airless sprayer


brush

flat trowel


paving machine


straightedge


heated roller


V-notch trowel


spiked roller


sandpaper machine


roller

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