SYSTEM SPORTFLOOR – EX– R

Total Thickness 2,2 mm

Classified system by the International Tennis Federation (I.T.F.)

Outdoor resilient, acrylic medium-hard sports floorings sstem ideal for tennis, basketball, volleyball, handball, football courts, as well as any other outdoor sport courts. Combination of wet-pour acrylic coatings in total average thickness of 2.2 mm.

Steps :

1. **RITIVEX R LIQUID 1102 - Acrylic primer.**
   Used as primer of acrylic coatings, such as ELASTOSPORT 853 or SUPER ELASTOCOAT 842. Applied by airless sprayer or brush.
2. **ELASTOSPORT 853-R - Acrylic, concentrated, one component, smoothing and repairing wet-pour resurfacer for sports floors systems. To be mixed with silica sand.**
   ELASTOSPORT 853 is applied by squeegee on smooth compact asphalt to seal the porosity and smooth out the surface before the application of ELASTOTURF 851. Highly resistant to adverse weather conditions(snow, frost, heat waves etc.) after drying.
3. **ELASTOTURF 851-CON/H - Acrylic, concentrated, elastic, slip-resistant, coating for sports floors systems. To be mixed with silica sand.**
   It is combined with ELASTOSPORT 853 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.

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 joining resin **RITIVEX 1102** 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: 200-300gr/m^2, depending on the absorption of the underlay.
- When the primer is dry (approximately 1 hour depending on the ambient temperature), follows the application of **ELASTOSPORT 853-R**, after adding silica sand in granulometry of 0.3-0.5mm. Proportions in weight 50% **ELASTOSPORT 853-R** and 50% silica sand plus 4-6% water in the mix.
  ELASTOSPORT 853-R is applied in two or three layers, depending on the desirable thickness and the roughness and absorbency of the surface. Each new layer is applied after the previous one has dried.
- As soon as the acrylic pore filler dries (within 24 hours at 25^{0}C), follows the application of **ELASTOTURF 851-CON/H,** mixed with quartz sand and water, in ratio of 1,5 part of **ELASTOTURF 851-CON/H** (42,85%), 1,5 parts of quartz sand (42,85%) and 0.5 parts of water (14.3%) by weight.

Important Remarks

- ✓ In case of extremely rough and sharp cement or asphalt surfaces it is recommended grinding of the surface with a mosaic machine, sandblast before the application of **ELASTOSPORT 853**.
- ✓ During temperatures over 40 degrees, ideal time for the application of **SPORTFLOOR-E-R SYSTEM** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10^{o}C.
- ✓ 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.

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Substrate

Asphalt is the safer subfloor for sport floorings for sure and must be always preferred than concrete surfaces.

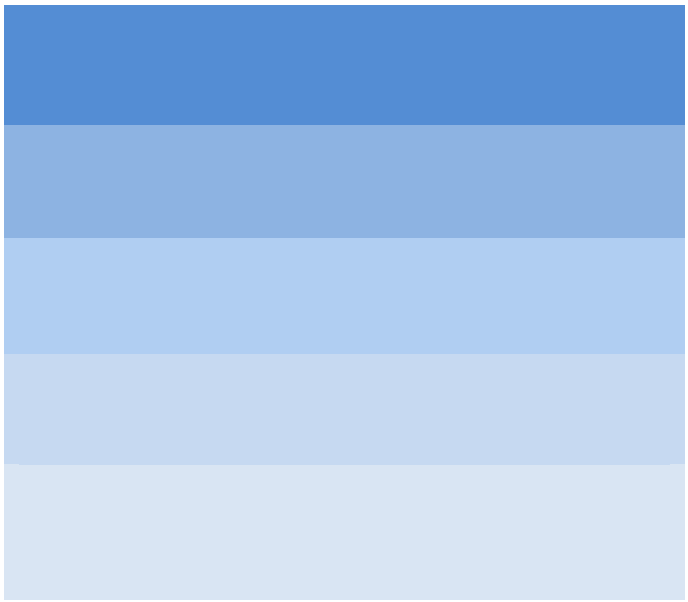
A. Asphalt Substrate

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

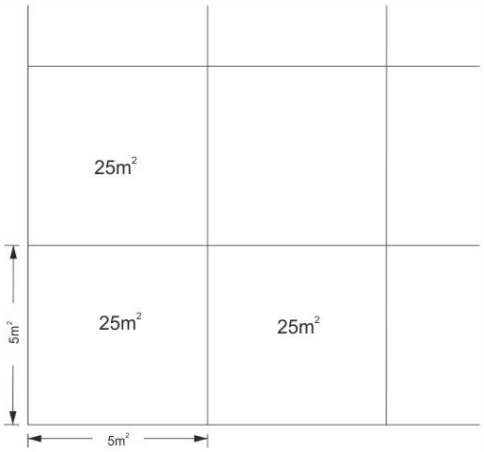
B. CONCRETE SURFACES

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%

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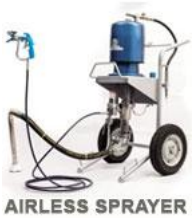
Tools:



Colors: Following colorchart.

This is a classified system by the International Tennis Federation (I.T.F.) in category 4 Medium – Fast.

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KDF

Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

The colors may vary slightly from the original due to digital representation.

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