SYSTEM FLEXFLOOR – EX-R

CUSHION SYSTEM

Total Thickness 3.5mm

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

Outdoor flexible, acrylic sports flooring system ideal for tennis, basketball, volleyball, handball and football courts, as well as any other outdoor sport courts. Combination of wet-pour acrylic coatings in total average thickness of 3.5mm.

Steps:

1. **RITIVEX R LIQUID 1102 - Acrylic primer.** Used as primer of acrylic coatings, such as **ELASTOSPORT 853** or **SUPER ELASTOCOAT 842**. Applied by roller, brush, squeegee or airless sprayer.
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-R is applied by squeegee on smooth compact asphalt to seal the porosity and smooth out the surface. Highly resistant to adverse weather conditions (snow, frost, heat waves etc.) after drying.
3. **SUPER ELASTOCOAT COARSE 842 - Highly flexible, pasty, wet-pour cushion rubber flooring for sports flooring systems.** Consists of recycled rubber, acrylic resins and special improvers, with SBR granules in

granulometry of 0.5-1.0mm. Applied by squeegee in 2 crossing layers on dry compact smooth asphalt or waterproof concrete substrates or on **ELASTOSPORT 853**.

4. **SUPER ELASTOCOAT FINE 842 - Highly flexible, pasty, wet-pour cushion rubber flooring for sports flooring systems.** Consists of recycled rubber, acrylic resins and special improvers, with SBR powder in granulometry of 0.2-0.5mm. Applied by squeegee in 2 crossing layers on dry compact smooth asphalt or waterproof concrete substrates or on **ELASTOSPORT 853**.
5. **ELASTOTURF 851 CON/H - Acrylic, concentrated, elastic, slip-resistant, coating for sports floors systems. To be mixed with silica sand.**
   Consists of acrylic resins, quartz sand and special improver. 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 R LIQUID 1102** for the proper adhesion on the sub-floor. Application of one or more layers until the surface is saturated with brush or airless sprayer. Avoid the creation of puddles of the material. Consumption: 200-400gr/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** in one layer, 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% up to 10% water in the mix.
- Then follows **SUPER ELASTOCOAT COARSE 842**, a highly flexible, pasty, wet-pour cushion rubber flooring with SBR granules in granulometry of 0.5-1mm which is applied by squeegee in 2 crossing layers. Consumption: 1,2kg/m^2 for 2 layers.
- And then **SUPER ELASTOCOAT FINE 842**, a highly flexible, pasty, wet-pour cushion rubber flooring with SBR powder in granulometry of 0.2-0.5mm, applied by squeegee in 2 crossing layers. Consumption: 0,8kg/m^2 for 2 layers.
- As soon as the surface dries (within 5-6 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** (43%), 1,5 parts of quartz sand (43%) and 0.5 parts of water (14%) 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 **FLEXFLOOR-EX-R SYSTEM**.
- ✓ During temperatures over 40 degrees, ideal time for the application of **FLEXFLOOR-EX-R 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.
- ✓ 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.

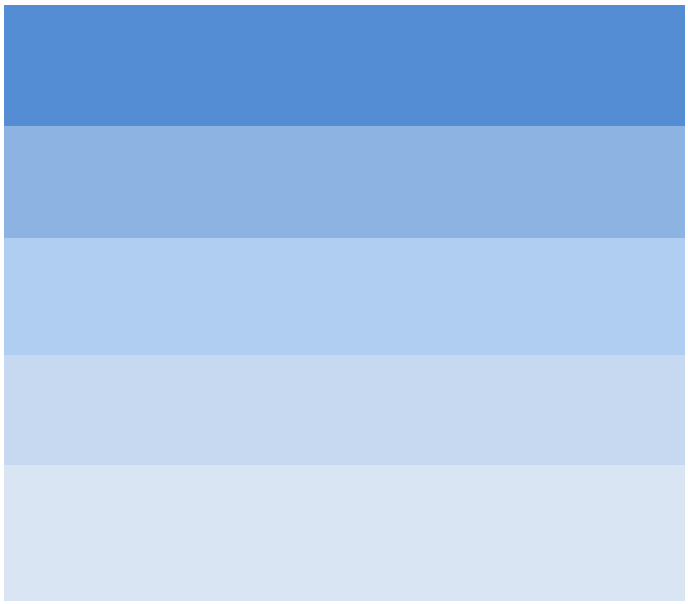
A. Asphalt Substrate

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

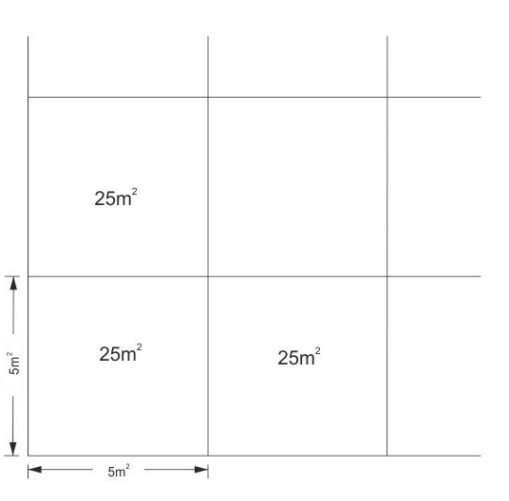
B. Concrete Surface

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: For the application of the system you will need: squeegee, roller and/or airless sprayer, brush.

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