

## SYSTEM SMARTFLOOR-EX

Total Thickness 1,5mm



Outdoor resilient and fast-applied acrylic sports flooring system ideal for tennis, basketball, volleyball, handball, football courts, as well as any other outdoor sports courts.

Combination of wet-pour acrylic coatings in total average thickness of 1.5mm.

### Steps:

- 1. RITIVEX R LIQUID 1102 - Acrylic primer. Used as primer of acrylic coatings such as SMARTCOAT 880.**  
Applied by airless sprayer or brush.
- 2. SMARTCOAT 880 - Acrylic, colored coating/filler for smoothing out the surface of the asphalt and for giving superior wearing properties and mechanical resistance to the system.** Consists of colored acrylic resins, quartz sand and special improver. SMARTCOAT 880 is applied by squeegee on smooth, compact road-grade asphalt and in parallel seals the porosity of the asphalt and smooths out the surface. Highly resistant to adverse weather conditions (snow, frost, heat waves etc.) after drying.
- 3. SMART TOP 890 - Acrylic, elastic coating for indoor and outdoor surfaces.** Applied by airless sprayer and short-haired mohair roller.

### 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.

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- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with priming acrylic resin **RITIVEX 1102** for the proper adhesion on the sub-floor. Application of one or more layers until the surface is saturated with airless sprayer or brush. Avoid the creation of puddles of the material. Consumption: 150-200gr/m<sup>2</sup> 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 **acrylic colored coating/filler SMARTCOAT 880** for sealing the porosity and smoothing the surface of the subfloor in 2 crossing layers by squeegee. Consumption: 2 kg/m<sup>2</sup> for two layers.
- As soon as the acrylic pore filler **SMARTCOAT 880** dries (24 hours at 23°C), follows the application of **SMART TOP 890 in one or two crossing layers**.
- Depending on the ambient temperature **SMART TOP 890** is diluted with 4-5% water (per weight), prior to application, in order to achieve better fluidity. It is applied in one or two coatings by squeegee depending on the desired effect. The next layer follows the other after the previous is dry. Consumption: 0,30 kg/m<sup>2</sup> (one layer) or 0,60 kg/m<sup>2</sup>/mm (two layers).

## Important Remarks

- ✓ In case of very rough and sharp cement or asphalt surfaces it is recommended to grind the surface with a mosaic or milling machine, and sandblast before the application of **SMARTCOAT 880**.
- ✓ **SMART TOP 890** should not be applied in more than 0,30 kg/m<sup>2</sup> per layer. In case of high temperature during summer, layers with more consumption than 0,30 kg/m<sup>2</sup> per layer should be avoided because the material may crack due to the rapid evaporation of water. Additional thickness is achieved only by repeated layers.
- ✓ During temperatures over 40 degrees, ideal time for the application of **SMARTFLOOR SYSTEM** is between 22:00 and 09:00 and the minimum temperature during application and drying should be over 10°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.

## Substrate

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

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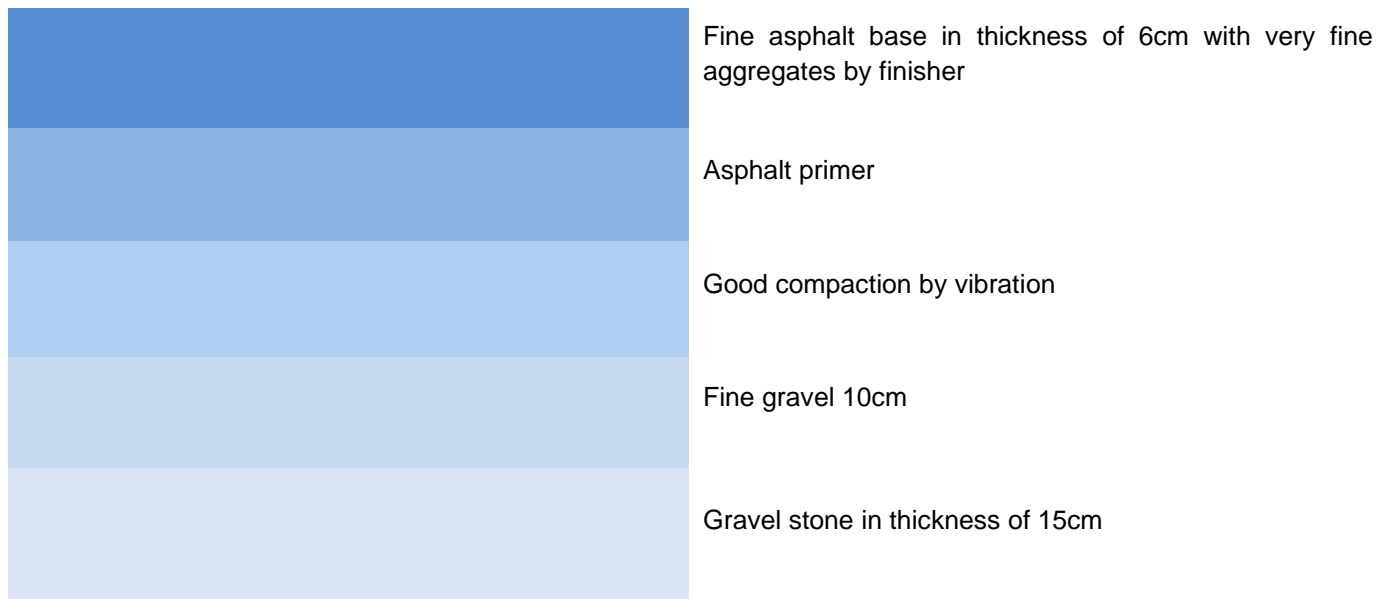
## A. Asphalt Substrate

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



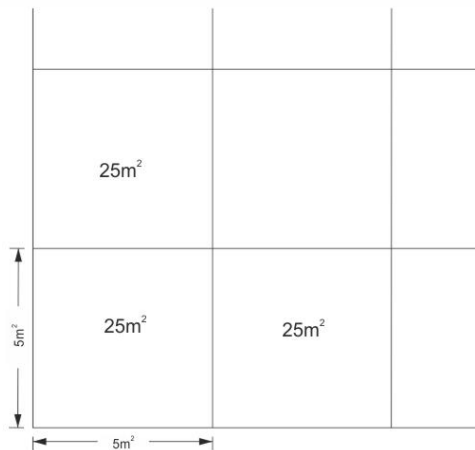
## B. Concrete Surface

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%

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# KDF

Sports Flooring Systems & Building Materials  
50 YEARS OF EXPERIENCE

## Tools:



airless sprayer

brush

Squeegee

roller

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