

Sport Floor System

Hard Court Max Thickness 1.5 to -2mm

system by the International Tennis Federation (I.T.F.) – CLASS 4

DESCRIPTION

For tennis, basketball, volleyball, handball, football, and other outdoor sport courts, this tough, medium-hard acrylic sports flooring system is perfect. The average thickness of the combination of wet-pour acrylic coatings is 2.2 mm.



STEPS

CHEMGUARD-P Acrylic primer. Used as primer of acrylic coatings, such as **CHEMGUARD** Applied by airless sprayer or brush.

- One part that smoothes and repairs wet-pour resurfacer for sports floor systems is acrylic, also known as **CHEMGUARD-RESURF**. consists of quartz sand, acrylic resins, and a unique enhancer. Before applying CHEMGUARD, a squeegee is used to smooth out the surface and seal the porosity in smooth compact asphalt by applying CHEMGUARD-RESURF. After drying, it is extremely resilient to unfavorable weather conditions like heat waves, frost, and snow
- **CHEMGUARD** Sports floorcoatings made of acrylic, elastic, and non-slip materials. includes quartz sand, acrylic resins, and a unique enhancer. It serves as a base for systems of multipurpose sports flooring. After drying, it is extremely resilient to unfavorable weather conditions like heat waves, frost, and snow. Squeegee application OR roller application

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.



CONTACT.

+923100981314
+923449464144



WEBSITE.

Constructivesolution.io



ADDRESS.

D-1 Darvish plaza main gt road opposite DHA phase 2 gate 1
Rawalpindi

➤ Good, dry cleaning of the surface from dust and residues with vacuum cleaner and squeegees. ➤ Priming of the surface with joining resin **CHEMGUARD-P** 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/m² 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 resurfacer **CHEMGUARD-RESURF** for sealing the porosity of the subfloor. ➤ Depending on the ambient temperature **CHEMGUARD-RESURF** is diluted with up to 10% water, prior to application, to achieve better fluidity. It is applied in two or more crossing layers, depending on the desirable thickness and the roughness and absorbency of the surface. Each new layer is applied after the previous one starts to dry. Time between successive layers: 5 to 6 hours. Consumption: 2kg/m² for 2 layers, depending on the roughness and absorbency of the surface. ➤ As soon as the acrylic resurfacer **CHEMGUARD-RESURF** dries (5-6 hours at 25 C), follows the application of **CHEMGUARD** in 2 crossing layers. ➤ Depending on the ambient temperature ELASTOTURF 851 is diluted with 5-6% up to 10% water, prior to application, to achieve better fluidity. It is applied in two or more coatings by squeegee or Roller depending on the desired thickness. The next layer follows the other after the previous starts to dry. Consumption: 1.5kg/m² (3 layers).

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 CHEMGUARD-RESURF.
- During temperatures over 40 degrees, ideal time for the application of SPORTFLOOR SYSTEM is between 22:00 and 09:00 and the minimum bearing 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

Tools

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



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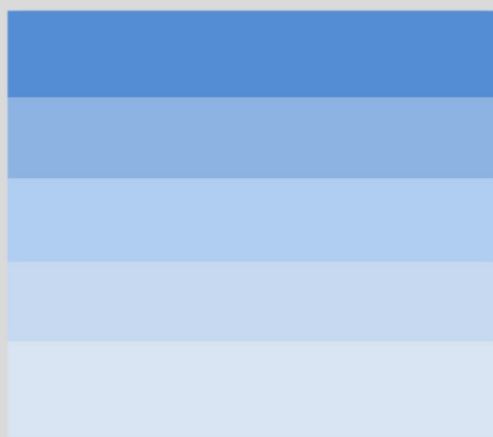
Substrate

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

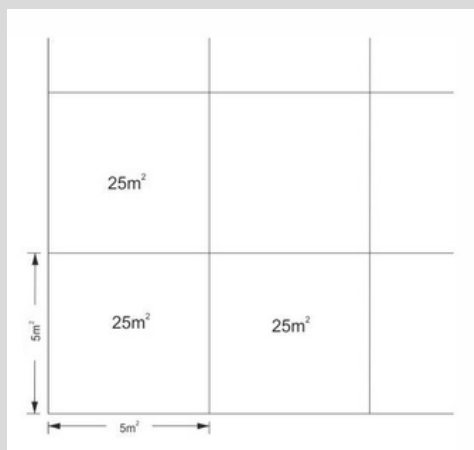
Good compaction by vibration

Fine gravel 10cm

Gravel stone in thickness of 15cm

B. CONCRETE SURFACES

Concrete surface must be power-troweled 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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