

SYSTEM COLORFLEX

Thickness of 12mm – 35mm



Elastic, wet-pour, polyurethane, safety flooring ideal for schoolyards, playground flooring and also for volleyball, handball, basketball, football courts and multipurpose courts.

Consists of a mixture of **RECYCLED RUBBER 858** with **PU BINDER 1118**, which can be applied in thickness from 6mm up to 20 mm as first layer(shockpad layer) and then a mixture of **EPDM 856** in granulometry of 1mm up to 3mm with **PU BINDER 1118** applied by paving machine or by trowel with the parallel use of a cylinder (10kg) in thickness from 6 mm up to 15 mm.

It can create many designs and patterns by the use of different colors of **EPDM 856**. It is applied in total thickness from 12 mm up to 30 mm, only over cured asphalt surfaces and waterproofed power-troweled smooth concrete surfaces without rising humidity issues.

Steps:

1. **PU PRIMER 870 - Special, 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.** Applied by paving machine. Alternatively, it can be applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting. Thickness from 6mm up to 20mm.
3. **Mixture of PU BINDER 1118 and EPDM 856.** Applied by paving machine. Alternatively, it can be applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting. Thickness from 6mm up to 15mm.

- POLYSPORT XP 1069 - UV-resistant, two-component, universal, mat, top coating for the protection of EPDM granules.** Applied in two crossing layers by airless sprayer or short haired mohair roller on the surface in the desired color, as dual protection from UV sunlight and color fading while giving the possibility to create different designs and patterns. Necessary protection for all EPDM colors except basic colors of KDF's colorchart, E3 & E10.

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 **PU PRIMER 870** for the proper adhesion on the sub-floor in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of the next material, to ensure proper adhesion. Avoid the creation of puddles of the material. Application is done with airless sprayer and brush. Consumption: 200-300gr/m² in two layers, depending on the absorption of the underlay.
- Good mixing of the **PU BINDER 1118** and the **SBR granules (1-3mm)**. Following, the mixture is poured on the surface and spread on the desired thickness using rake, straightedge, flat metal trowel and cylinder for manual application (for children's playgrounds) or paving machine (for sports flooring). Consumption for 10mm: PU BINDER 1118 1kg/m², SBR granules 6kg/m².
- After 48-72 hours follows the application of the mixture of **PU BINDER 1118** and **EPDM granules** using rake, straightedge, flat metal trowel and cylinder for manual application (for children's playgrounds) or by paving machine. Good mixing of the **PU BINDER 1118** and **EPDM (1-3mm)** is needed before application. Consumption for 10mm: PU BINDER 1118 1kg/m², EPDM granules 6kg/m².
- **POLYSPORT 1069 XP** is sprayed on the surface, using also a short haired mohair roller, in the desired color as a double UV protection of the color on the surface, to create different designs and patterns and last for many years. Consumption: 0.4kg/m². (Necessary protective top coating for all colors of EPDM except when using the standard colors from KDF colorchart, E3, E7, E8, E9 & E10).

Important Remarks

- ✓ During temperatures over 40 degrees, ideal time for the application of **SYSTEM COLORFLEX** 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.

Substrate

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

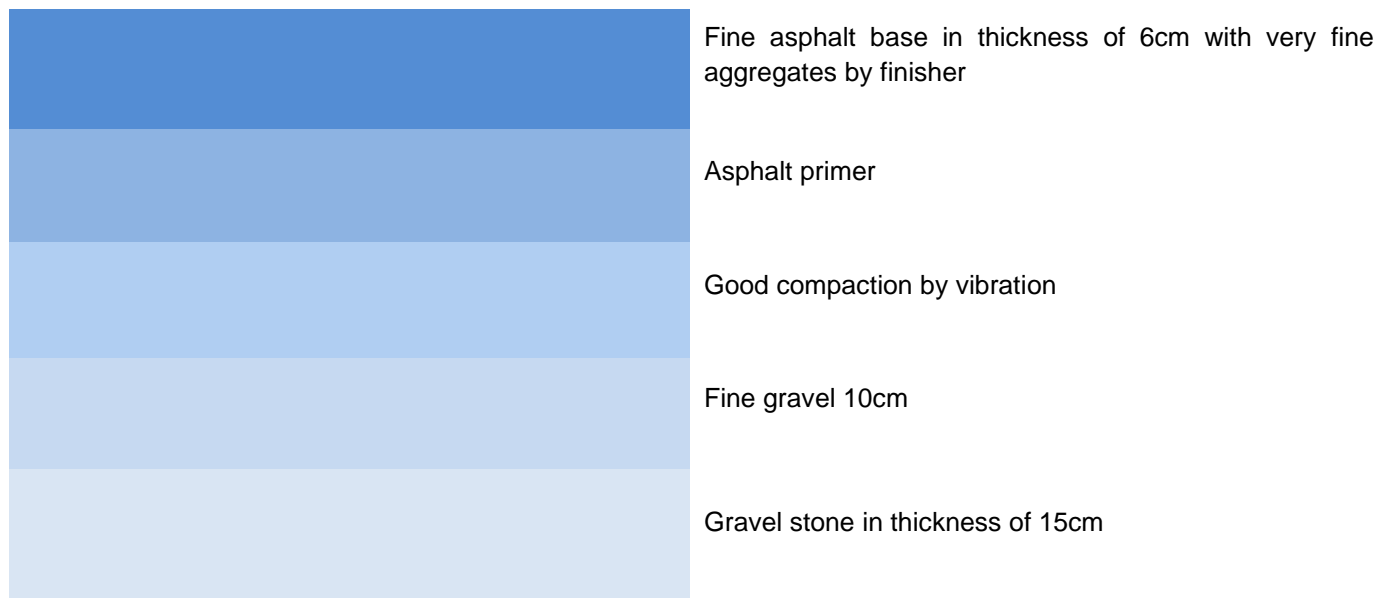
A. Asphalt Substrate

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



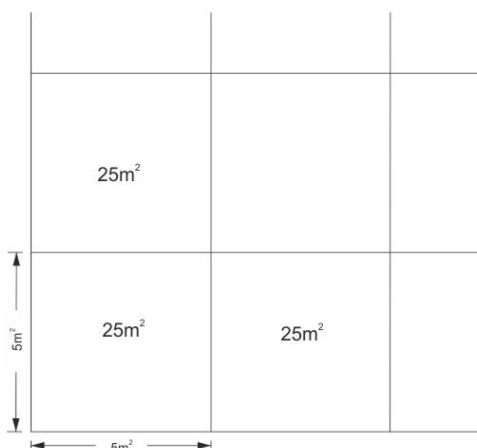
B. Concrete Surface

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:



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