KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

QUICKLAWN SAFEPOL

OPEN-POROUS SYSTEM

Elastic, safety flooring ideal for children playground floorings, applied at site in various thickness from 30mm up to 120mm.

Consists of a prefabricated special safety pad for playground flooring **RAPIDFOAM 868** followed by a layer of **PU PRIMER 870** with a polyester net and on top a mixture in 15mm thickness of **EPDM 856** (in granulometry of 1-3mm) with **PU BINDER 1118** (upper layer).

Steps:

1. **RAPIDFOAM 868** - **Prefabricated special safety pad for playground flooring.**
2. **PU PRIMER 870** - **Special, polyurethane primer with a polyester net.** Applied by brush in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of the mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858** in order to ensure proper adhesion, especially on the edges and endings of the playground flooring.
3. **SAFEPOL MULTICOLOR** - **Mixture of PU BINDER 1118 and EPDM 856 in granulometry of 1-3mm.** Applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting.
4. **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 crate different designs and patterns. Necessary protection for all EPDM colors except basic colors of KDF's colorchart, E3 & E10.

Preparation – Application

Applied on dry, stable surfaces, free of materials that might prevent bonding e.g. dust, loose particles etc (in case of asphalt or concrete). 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.
- Place the pads, **RAPIDFOAM 868,** on the installation area. The pads have to be installed without gaps and in bond, it is not necessary to tape the pads. The pads can easily be fitted around the anchoring of the playground equipment, by making an incision in the foam. Gluing the pads to the subbase is not necessary.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-250 gr/m^2, depending on the absorption of the underlay. A polyester net is placed between the first and second layer of **PU PRIMER 870.** Applied by brush in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of the mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858** to ensure proper adhesion, especially on the edges and endings of the playground flooring.
- Follows the application of the mixture of **PU BINDER 1118** and **EPDM** granules (mixture **SAFEPOL MULTICOLOR)** using rake for spreading, (wooden) straightedge for initial smoothing, trowel for final smoothing and compacting, cylinder weighing 25kg (or so) for final compacting (cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface).Consumption: 18kg/m^2/cm for 15mm thickness.
- In case of any small irregularities on the surface may be removed by rolling the surface using a metallic cylinder when it's still fresh.
- **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 **QUICKLAWN SAFEPOL 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.

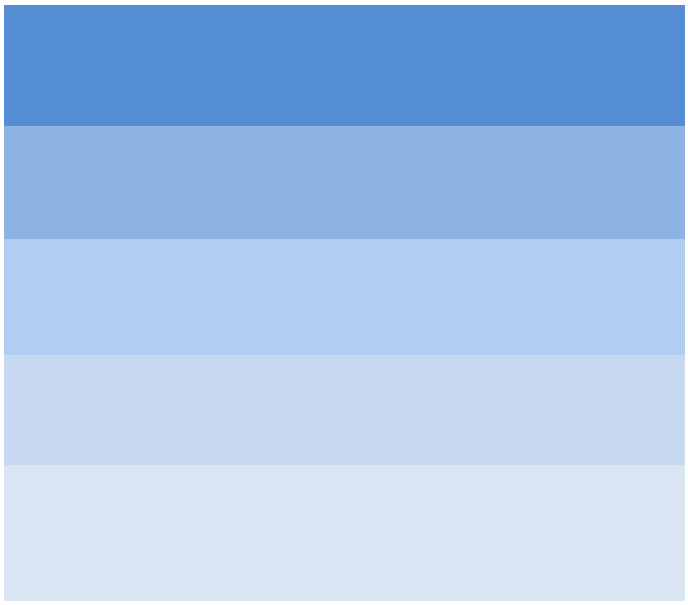
A. Asphalt Substrate

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

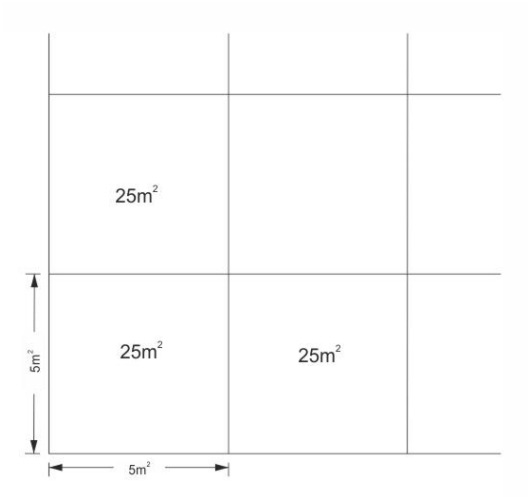
B. Concrete Surface

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:


airless sprayer


brush


flat trowel


rake


straightedge


heated roller


paving machine


roller

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