

QUICKLAWN PLAYGROUND SANDPROOF with EPDM CLOSED POROUS SYSTEM



Innovative, elastic, seamless, flexible colored flooring, ideal for playground floorings.

It consists of a cushion base, with a first layer of a prefabricated, special, safety pad for playground flooring, **RAPIDFOAM 868**, followed by a layer of **PU PRIMER 870** with polyester net, and third layer a mixture of **EPDM** granules (granulometry 0.5-1.5mm) mixed with **PU BINDER 1178** in thickness of 15mm.

Then follows the modified sealing, sandproof and waterproof **KDF-PU 1055** pore filler with high elasticity in 2 crossing layers and the modified, **KDF-PU 1056**, sealing, UV-resistant, aliphatic, elastic, glossy top layer in 3 crossing layers.

It provides an excellent safety flooring with a very quick application in a variety of colors and closed pores. Playground flooring that is easy to be cleaned and maintained.

Steps:

- 1. RAPIDFOAM 868** - Prefabricated special safety pad for playground floorings.
- 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. Mixture of PU BINDER 1178 and EPDM granules** in granulometry of 0.5-1.5mm. Applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for

compacting.

4. KDF-PU 1055 - Polyurethane, modified, sandproof and waterproof, elastic pore filler.

Applied by metal trowels to create a completely non porous surface.

5. KDF-PU 1056 - Polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.

Preparation – Application

Applied only on dry asphalt and concrete surfaces (over 30 days old from date of placement for asphalt and 40 days for concrete) 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.
- 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 sub-base is not necessary.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-250 gr/m², 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** in order to ensure proper adhesion, especially on the edges and endings of the playground flooring.
- After 5-12 hours and when the primer is almost dry but not completely, application of the **mixture of PU BINDER 1178 and EPDM granules, in granulometry 0.5-1.5mm** with paver machine to have the appropriate elasticity on the subfloor, in thickness of 15mm. Consumption 18kg/m²/cm.
- Afterwards when the surface of EPDM is dry, application of **polyurethane, modified, sandproof and waterproof, elastic pore filler KDF-PU 1055 with metal trowels to create a completely non porous surface with consumption 2 kg per square meter in 2 layers.**
- Before the last **UV-resistant top layers** are applied, the surface needs the use of sandpaper machine to make a completely even surface without any irregularities or loose crumbs.
- After the sandpaper of the whole surface is finished follows the application of 350 gr/square meter of our **polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating KDF-PU 1056** in two cross layers by airless spray or by rollers.

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Important Remarks

- ✓ During summer or during temperatures over 40 degrees, ideal time for the application of **QUICKLAWN SANDPROOF with EPDM** is between 22:00 and 09:00 and temperature less than 40°C, while in the winter, 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.

Substrate

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

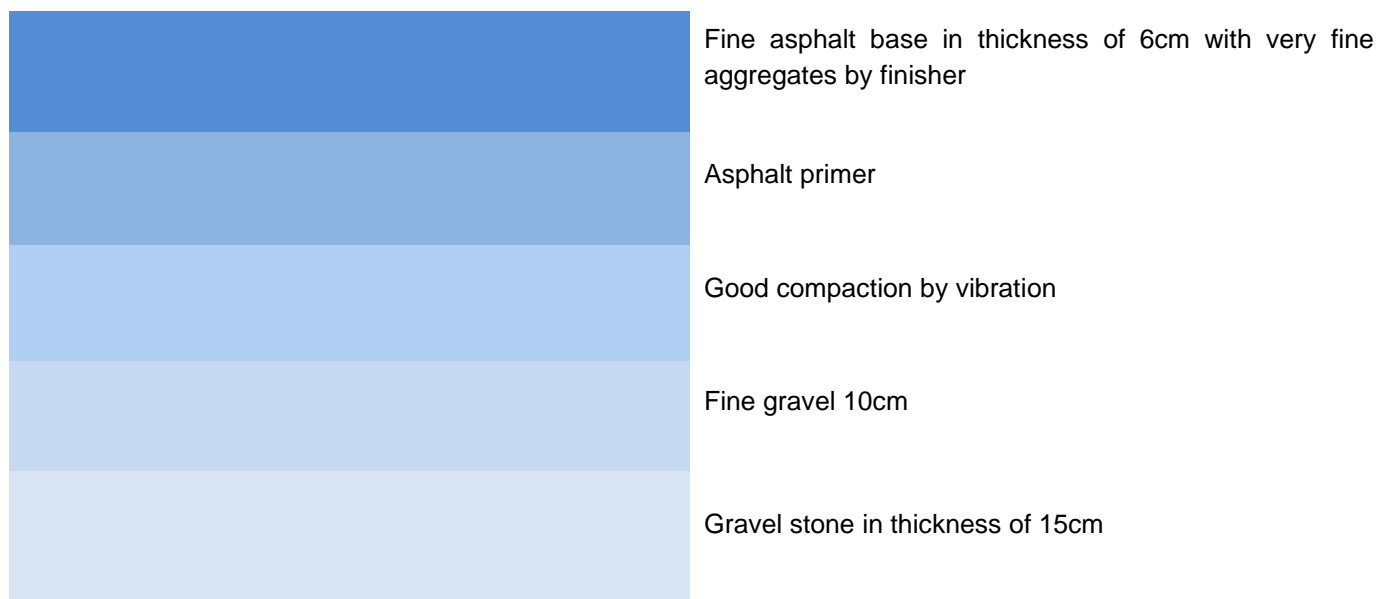
A. Asphalt Substrate

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.

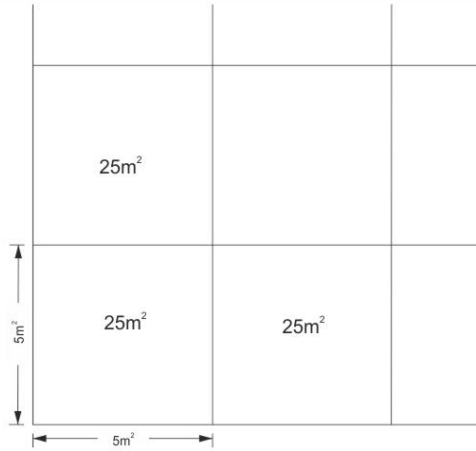
Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open the pores accordingly and also a measurement by special 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.

KDF

Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE



Substrate requirements

Concrete quality	at least C20/25
Age:	at least 40 days
Moisture content:	below 4%

Tools:



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