

RAPIDFOAM PAD 868

PREFABRICATED SHOCK-PAD FOR PLAYGROUND FLOORING

GENERAL CHARACTERISTICS

RAPIDFOAM PAD 868 is the prefabricated cushion sub-base of the playground flooring **QUICKLAWN PLAYGROUND SYSTEMS** of **SAFEPOL** and **SANDPROOF**, in pad lawn and in different thickness with a final PU, smooth, non-porous finish or even **EPDM** or **TPV** finish. It's saves a lot of time during the application and minimizes the duration of the project time keeping also the project clean.

RAPIDFOAM's PAD 868 sealed surface transforms totally the meaning of playground flooring worldwide. It provides an excellent critical fall height results with long term performance and resistance. **RAPIDFOAM PAD 868** can be installed in combination with different surface's finishes as EPDM granules or EPDM granules plus polyurethane sealed system or European SBR granules plus polyurethane sealed system in 15mm.

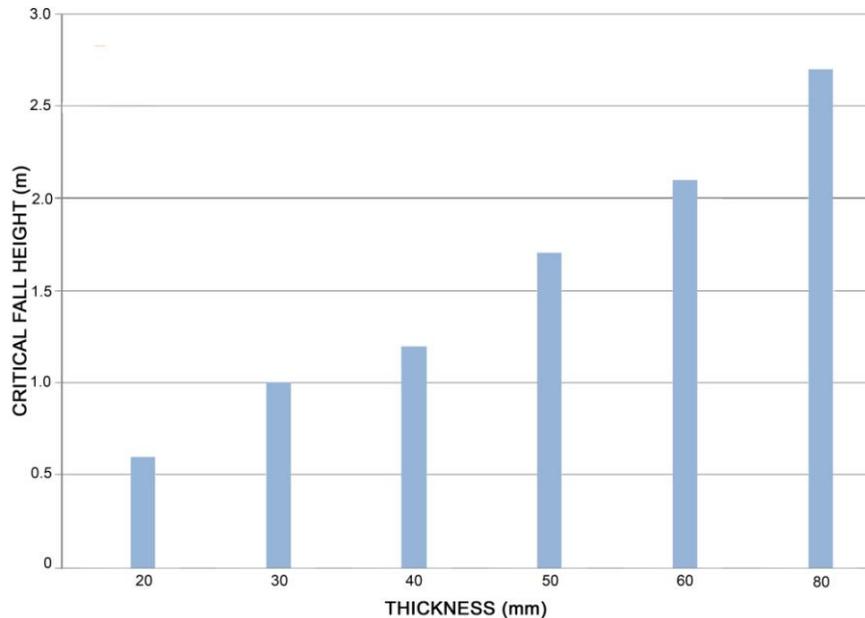
Offers:

- **Uniform** critical fall height over the surface.
- Stable critical fall height **at high level** on long term bases.
- **Good dimensional stability.**
- **Extremely easy and fast to install.**

TECHNICAL DATA

HIC according to EN 1177
Critical fall height @ HIC = 1000 (in m)

Thickness	20mm	30mm	40mm	50mm	60mm	80mm
Critical Fall Height	0.6	1.0	1.2	1.7	2.1	2.7



PREPARATION-APPLICATION

The sub-surface on which the material will be installed must be completely dry and clear of all foreign matter and free of dust, dirt, oil or any kind of spills.

- **PLAYGROUND FLOORING with KDF RAPIDFOAM PAD 868 AS SEALED, NON-POROUS SURFACES**

Combination of the prefabricated cushion sub-base **KDF RAPIDFOAM PAD 868** with a mixture of **SBR** or **EPDM** or **TPV granules** with PU Binder in thickness of 15mm and then a special PU pore sealer and PU, UV-resistance top coating.

- **PLAYGROUND FLOORING with KDF RAPIDFOAM PAD 868 AS OPEN-POROUS SYSTEM**

Combination of the prefabricated cushion sub-base **KDF RAPIDFOAM PAD 868** with a mixture of **EPDM granules** with PU Binder, on top, in thickness of 15mm.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

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PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT FOR SAFEPOL MULTICOLOR 859

GENERAL CHARACTERISTICS

POLYURETHANE PRIMER 870 is a clear, polyurethane-based, one-component resin, which is used as an adhesive component between the sub-floor and **SAFEPOL** as well as between **SAFEPOL** and **SAFEPOL MULTICOLOR**.

- Penetrates in depth.
- Ideal for old and new surfaces.
- Improves adhesion of **SAFEPOL MULTICOLOR 859** on cement and asphalt surfaces and even on well-stepped, clean and dry gravel.

TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity:	135 ± 5mPa•s at 23°C
Density:	1,049 ± 0,002 gr/cm ³
Temperature for the application and drying of the material:	12 – 35°C > 3 N/mm ² (breaking of concrete)
Adhesive strength:	

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PREPARATION-APPLICATION

Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles, grease 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.
 - Priming of the surface with **POLYURETHANE PRIMER 870** in two layers. Consumption: 250-400 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the **SAFEPOL** mixture, in order to ensure proper adhesion.
 - After application and hardening of **SAFEPOL** follows priming of the surface with **POLYURETHANE PRIMER 870** in one layer. Consumption: 200 gr/m². Similarly the primer is applied in sections of the underlay right before the application of **SAFEPOL MULTICOLOR** for the proper adhesion.
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CONSUMPTION

200-400 gr/m² in two layers depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

Nappy rolls, brushes. Tools should be cleaned with a PU solvent immediately after use.

PACKAGING

Supplied in drums of 4 Kg.

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 35°C.

REMARKS

- Working time of **POLYURETHANE PRIMER 870** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLYURETHANE PRIMER 870** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - Our recommendation is that the asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer (and not 2) in 6 to 8 cm 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.
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CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

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SAFEPOL MULTICOLOR

ELASTIC SAFETY FLOORING

GENERAL CHARACTERISTICS

SAFEPOL MULTICOLOR 859 is an elastic safety flooring ideal for exterior sports floorings in schools, outdoor sports surfaces, multipurpose sports courts, playground floorings, athletic tracks etc.

- Consists of the sub-floor **SAFEPOL** which is a mixture of **RECYCLED RUBBER** and **PU BINDER 1118** and final coating **SAFEPOL MULTICOLOR** which is a mixture of **EPDM** and **PU BINDER 1118**.
- Applied on asphalt surfaces at least 25-days old and waterproof concrete surfaces without humidity issues
- Applied in various thicknesses (**base coat SAFEPOL 5-15mm** and **top EPDM coat SAFEPOL MULTICOLOR 5-10mm**)
- Creates different designs and patterns in a variety of EPDM colors. It is recommended that it is over-coated with the special UV-resistant PU paint **POLYSPORT 1052** in various colors.

TECHNICAL DATA

Basis:	polyurethane prepolymer, rubber granules
Appearance:	viscous paste
Mixing proportion (SAFEPOL):	20% PU Binder : 80% SBR Rubber by weight
Mixing proportion (SAFEPOL MULTICOLOR):	20% PU Binder : 80% EPDM by weight
Application time:	approx. 20 min at 23 °C
Granulometry (Recycled Rubber):	0.5-2mm or 1 – 3 mm
Granulometry (EPDM):	1 – 3mm
Temperature for the application and drying of the material:	12 – 35 °C approx. 7-8 hours at 25 °C
Walkability:	

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PREPARATION- APPLICATION

Applied on dry 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.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 300-400 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the **PU BINDER 1118** and **RECYCLED RUBBER** mixture (**SAFEPOL**), in order to ensure proper adhesion.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER (SAFEPOL)**. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Following, the mixture is applied on the surface using rakes, straightedges, flat metal trowel and cylinder for manual application (for children playgrounds) or by paving machine (**PLANOMATIC** from **SMG** is recommended). Consumption: 6-7kg/m²/cm.
- After 48 hours at least, follows the application of the mixture of **PU BINDER 1118** and **EPDM (SAFEPOL MULTICOLOR)** using rakes, straightedges, flat metal trowel and cylinder for manual application (for children playgrounds) or by paving machine (**PLANOMATIC** from **SMG** is recommended). Consumption: 9-10kg/m²/cm. Good mixing of the **PU BINDER 1118** and **EPDM** is needed before application. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Finally any small irregularities on the surface may be removed by rolling the surface using a metallic cylinder.

APPLICATION TOOLS

- Manually for children playgrounds: rake, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15 kg for final compacting
- Paving machine.

STORAGE

9 months for the **PU BINDER 1118** in unopened containers in dry and cool conditions.

REMARKS

- Working time of **SAFEPOL & SAFEPOL MULTICOLOR** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **PU BINDER 1118** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - After hardening **SAFEPOL MULTICOLOR 859** is completely safe for health.
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CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

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