

## 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 <sup>3</sup>
Temperature for the application and drying of the material:	12 – 35°C > 3 N/mm <sup>2</sup> (breaking of concrete)
Adhesive strength:	

### 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/m<sup>2</sup>, 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/m<sup>2</sup>. Similarly the primer is applied in sections of the underlay right before the application of **SAFEPOL MULTICOLOR** for the proper adhesion.

## CONSUMPTION

200-400 gr/m<sup>2</sup> in two layers depending on the type and the absorbency of the underlay.

## APPLICATION TOOLS

Nappy rolls, brushes. Tools should be cleaned with **POLYURETHANE SOLVENT 133** immediately after use.

## PACKAGING

Supplied in drums of 4 Kg.

## STORAGE

8 months in unopened containers in dry and cool conditions.

## 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.

## 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.**

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.

## SAFEPOL

### ELASTIC SAFETY FLOORING

#### GENERAL CHARACTERISTICS

**SAFEPOL** is an elastic safety flooring ideal for playgrounds, athletic tracks, schools etc.

- Consists of a mixture of **RECYCLED RUBBER 858** and **PU BINDER**
- Applies in various thicknesses on cement and asphalt surfaces
- Creates different designs and patterns in a variety of colors.
- Can be coated with elastic coating for sports grounds **ELASTOTURF 851**.

#### TECHNICAL DATA

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

#### 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 **PU PRIMER 870** in two layers. Consumption: 250-400 gr/m<sup>2</sup>, 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, in order to ensure proper adhesion.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER**. 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
- Following, the mixture is poured on the surface and spread on the desired thickness using rakes, straightedges, flat metal trowel and cylinder for manual application (for children playgrounds) or paving machine. Consumption: 6.5kg/m<sup>2</sup>/cm.homogeneity.

## MIXTURE RATIO

20% **PU BINDER 1118** -80% **RECYCLED RUBBER 858**.

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## 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.
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## STORAGE

At least 9 months for the **PU BINDER 1118** and **PU PRIMER 870** in unopened containers in dry and cool conditions.

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## REMARKS

- Working time of **SAFEPOL** 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 of the product.
  - After hardening **SAFEPOL** is completely safe for health.
  - 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

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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:	

## 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/m<sup>2</sup>, 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/m<sup>2</sup>/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/m<sup>2</sup>/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.
- 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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