

## PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT BETWEEN SUBFLOOR AND SPORTS SYSTEMS

### GENERAL CHARACTERISTICS

**POLYURETHANE PRIMER 870** is a clear, polyurethane-based, one-component primer, which is used as an adhesive component between the sub-floor and sport systems.

- ✓ Penetrates in depth.
- ✓ Ideal for old and new surfaces.

### TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity:	50 – 250 mPa•s at 25°C
Density:	0.9- 1.0 Kg/Lt
Temperature for the application and drying of the material:	10 – 40°C

### PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, 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 **PU PRIMER 870** applied by airless sprayer equipment or brush, roller. The base layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while **PU PRIMER 870** is still a bit sticky. Curing takes place at ambient temperature by evaporation of the solvent and reaction with atmospheric moisture. High temperatures and moisture will shorten the cure time. **PU PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, wet-pour mixture of SBR and PU BINDER 1118 can be applied on sticky surface.
- The temperature should not fall below 10°C during curing.
- Opened drums should be used up quickly.
- The layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while the final layer of **PU PRIMER 870** is still sticky.
- **NOTE: Rain will cause the primer to lose its function! If the primer was affected by rain, the base layer should not be constructed! Instead, the sub floor has to dry and the primer application has to be repeated.**

200-300 gr/m<sup>2</sup> depending on the type and the absorbency of the underlay.

Brush and airless sprayer. Tools should be cleaned with a PU solvent immediately after use.

## Drums / Barrels.

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

- 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.

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 safety data sheet.**



**SPORTS  
& PLAY**

## PU BINDER 1118

### POLYURETHANE BINDER

#### GENERAL CHARACTERISTICS

100% solids, aromatic, polyisocyanate-prepolymer, moisture-curing binder based on diphenylmethane diisocyanate. It is MDI based and solvent free and has low viscosity. It exhibits excellent adhesion to all rubber granules and gives a strong performance both in terms of tensile strength and durability.

It is mixed with **RECYCLED RUBBER 858** or **EPDM granules** for the creation of the elastic safety flooring **SAFEPOL MULTICOLOR** or other flexible rubber floorings, ideal for playgrounds, athletic tracks, schools etc. Combines and bonds RIM components, polyurethane granules and sponge particles. Also it can be used as lining for insulation and for pasting.

#### TECHNICAL DATA

Density of mixture (25°C)	app. 1.08 – 1.18 Kg/Lt
Viscosity (25°C)	4.000 - 8.000 mPa.s
Pot-life (25°C)	30-75 min.
Application temperature	Min 10°C
Curing (25°C and %60 relative humidity)	After 24 hours it cures.

#### PREPARATION- APPLICATION

**Applied on dry surfaces without rising humidity issues, 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 using vacuum cleaner and squeegees.

Can be used for kids playground, running tracks, sports grounds, walkways and offices.

**Moulded in production:** Rubber granules and binder are thoroughly mixed, taken into moulds, and then pressure is applied. 160 bar pressure, mold temperature of 130 degree gives reasonable results in 12 - 15 minutes. In molding applications, binder content should not fall below 5%.

**On-site applications:** 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.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER 858**. 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 poured on the surface and spread on the desired thickness using paving machine or by hand, if the applicator is experienced, with rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface).
- The application procedure for **SAFEPOL MULTICOLOR (PU BINDER 1118 and EPDM 856 mixture)** on top of asphalt or waterproof concrete directly is the same as for **SAFEPOL MIXTURE** (the mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858**).

## RATIO MIXTURE

- 16% **PU BINDER 1118** and 84% **RECYCLED RUBBER 858**, for sports flooring.
- 14% **PU BINDER 1118** and 86% **RECYCLED RUBBER 858**, for playground flooring.
- 17% **PU BINDER 1118** and 83% **EPDM 856**.

## PACKAGING

220kg in barrels.

## STORAGE

12 months in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

## REMARKS

- Concrete humidity should not be above 4%, ambient humidity should be at least 40% and most 80%. To begin the application, must wait for the appropriate humidity.
- Working time of **PU BINDER 1118** 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.

## 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.

## SBR RUBBER GRANULES 858

### GENERAL CHARACTERISTICS

It can be used in sports facilities as infill in synthetic grass with the parallel use of round sand and also as one of the components in case of cast applied wet-pour systems for playground floorings or as shock-pad for sport subfloors in athletic tracks and sports fields.

Rubber granule is derived from car and truck tires. During processing, the tires are mechanically granulated, removing all metal and synthetic fibers, as well as any other foreign part contained in there with specially designed sieves, so as to produce a 99.99% clear rubber with high quality.

### PROPERTIES

- 100% recyclable
- Long life
- Resistance to adverse weather conditions
- High shock absorbency and vibration damping
- High abrasion resistance

### PREPARATION- APPLICATION

In sports facilities and playgrounds to ensure flexibility of surface and vibration absorption.

### TECHNICAL CHARACTERISTICS

#### Granulometry 1-3mm

DENSITY:	0.48kg/cm <sup>3</sup>
SPECIFIC GRAVITY	1.20+/- .05 (Water = 1.0)
HARDNESS	60
HUMIDITY(%)	<0.65
ELASTICITY	100% - No change
RESISTANCE	113N/cm - Excellent

## PACKAGING

Packaging is available in big-bags -1 ton in following sizes:

Grain size	0,5-1,5 mm
Grain size	0,5-2,5 mm
Grain size	0.5-4.0 mm
Grain size	2-8 mm
Grain size	8-20 mm
Grain size	80-50 mm
Grain size	80-120 mm

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## ELASTOTURF 851

SPECIAL, ELASTIC, COATING FOR EXTERNAL SPORT FIELDS

### GENERAL CHARACTERISTICS

**ELASTOTURF 851** is acrylic-based, elastic, colored, non-slip coating for external sport fields.

- Applied on asphalt and cement waterproofed surfaces without rising humidity issues, following the application of **ELASTOSPORT 853** or **SUPER ELASTOCOAT 842**.
- It can be also combined with prefabricated shock-absorbent rolls in thickness of 4mm to 14mm or a rubber mixture of **SBR granules plus PU BINDER**.
- Ideal for basketball, volleyball, handball, football and tennis external courts. Suitable for sports centers, schools, fitness centers, pavements, hallways.
- Applied easily, having low cost.
- Provides a safe, high quality game.

### TECHNICAL DATA

Basis:	one-component acrylic resin
Appearance:	viscous liquid
Colors:	in 24 colors form KDF colorchart
Viscosity:	15.000-22.000 mPa•s at 25°C
Density:	1.70 - 1.80 kg/l
Temperature for the application and drying of the material:	10 – 40° C
Walkability:	after 24 hours at 25°C
Total Hardening:	5 days at 25°C

### PREPARATION-APPLICATION

**Applied only on dry surfaces, 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, except in case of using shock-absorbent rolls, with bonding resin primer **RITIVEX 1102** for the proper adhesion of the sub-floor. Application of one or more layers until the surface is saturated. Avoid the creation of puddles of the material.
- When the primer dries (approximately 1 hour depending on the ambient temperature), follows the application of **ELASTOSPORT 853** for sealing the pores of underlay. Alternatively, the substrate can be prefabricated shock-pad in thickness 4-14mm or an in-situ rubber shock-pad of **SBR granules plus PU BINDER**.
- As soon as **ELASTOSPORT 853** or **SUPER ELASTOCOAT 842** dries, follows the

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application of **ELASTOTURF 851**.

- Depending on the ambient temperature **ELASTOTURF 851** is diluted to 2-3 % water, prior to application, in order to achieve better fluidity. It is applied, in two or more coatings depending on the desirable thickness. The next layer follows the other after the previous is dry.
- The next day, depending ambient temperature follows application of finishing paint **ELASTOMARK 818**.

## CONSUMPTION

- 1.5 kg/m<sup>2</sup> of **ELASTOTURF 851** (three layers, for System Sportfloor – Ex Hard Court).
- 1.8 kg/m<sup>2</sup> of **ELASTOTURF 851** (three layers, for System Flexfloor - Ex).
- 2.2 – 2.5 kg/m<sup>2</sup> of **ELASTOTURF 851** (three layers, for System Polyflex AEL - Ex).
- 3.5 – 3.8 kg/m<sup>2</sup> of **ELASTOTURF 851** (three layers, for System Wet Pour Polyflex AEL - Ex).

In case of using the top coat **ELASTOMARK 818** as final layer then the consumption of **ELASTOTURF 851** will be:

- 1 kg/m<sup>2</sup> of **ELASTOTURF 851** (two layers, for System Sportfloor – Ex Hard Court).
- 1.3 kg/m<sup>2</sup> of **ELASTOTURF 851** (two layers, for System Flexfloor - Ex).
- 1.7 – 2 kg/m<sup>2</sup> of **ELASTOTURF 851** (two layers, for System Polyflex AEL - Ex).
- 3 – 3.3 kg/m<sup>2</sup> of **ELASTOTURF 851** (two layers, for System Wet Pour Polyflex AEL - Ex).

## APPLICATION TOOLS

Squeegee. Tools should be cleaned with **WATER** immediately after use.

## PACKAGING

Supplied in barrels 200 Kg.

## STORAGE

12 months in unopened containers in dry places with minimum temperature 5°C and high temperature 30°C (avoid sunlight).

## REMARKS

- In case of extremely rough and sharp cement or asphalt surfaces it is recommended grinding of the surface with a mosaic machine, sandblast or rotor machine before the application of **ELASTOSPORT 853**.
- During temperatures over 40°C, ideal time for the application of **ELASTOTURF 851** is between 22:00 - 9:00 a.m., and the minimum bearing temperature during application and

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drying should be 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.

## 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 safety data sheet.**

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layers. The next layer follows as soon as the previous dries.

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## CONSUMPTION

- 350 – 400 gr/m<sup>2</sup> in one layer as top-coat
  - 700 – 800 gr/m<sup>2</sup> in two layers, depending on the absorbency and roughness of the underlay
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## APPLICATION TOOLS

Short-haired mohair roller and / or airless sprayer. Tools should be cleaned with **WATER** immediately after use.

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## PACKAGING

Supplied in drums of 15kg.

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## STORAGE

12 months in unopened containers in dry places with minimum temperature 5°C and high temperature 30°C (avoid sunlight).

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