

## 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.**

# KDF

Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

## CONSUMPTION

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

## APPLICATION TOOLS

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

## PACKAGING

Drums / Barrels.

## STORAGE

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

## 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.**

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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## 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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## 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**).
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## 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**.
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## PACKAGING

220kg in barrels.

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## STORAGE

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

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## 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.
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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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## POLYSPORT STUCCO 1050

POLYURETHANE, ELASTIC, TWO-COMPONENT PORE FILLER

### GENERAL CHARACTERISTICS

**POLYSPORT STUCCO 1050** is elastic solvent-free, two component polyurethane based sealant for outdoor sport surfaces.

**POLYSPORT STUCCO 1050** has very good filling capacity and thixotropic properties. It has low fluidity feature with its filler structure can be easily applied. It provides strong and elastic filling after the reaction.

### TECHNICAL DATA

Mixing Ratio	90.8 : 9.2 (By weight)
Density of mixture (25°C)	1.69-1.79 Kg/lt
Viscosity of mixture (25°C)	40.000-55.000 mPa•s at 25°C
Pot-life (25°C)	20-30 min at 25°C
Application temperature	Min 10 – 40 °C
Curing (25°C and %60 relative humidity)	After 24 hours
Color	Beige

### 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.
- It can be applied directly on top of surfaces, on a cast-in-situ cushion base layer of wet pour (SBR rubber granules mixed with polyurethane binder) or prefabricated roll, which have to be dry, load bearing, clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants.
- The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring the contents of the B component (hardener) should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 20-30 minutes of mixing at 25°C The surface must be dry and clean from dust and residues. Application is done by flat metal trowel.

## CONSUMPTION

1.25 - 3.7 kg/m<sup>2</sup>, depends on the porosity of the substrate.

## PACKAGING

250 kg barrels and drums.

## STORAGE

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

## REMARKS

- Substrate must be dry, clean, and free from dust, grease and oil. Application must be done between 10°C - 40°C.
- In case the second layer of PU pore filler is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.

## CAUTION

Harmful if swallowed. Seek immediately medical attention. Rubber gloves and safety glasses with side guards should be worn.

**For more information consult the safety data sheet.**

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## POLYSPORT 1052-SEMIMAT

UV-RESISTANT, POLYURETHANE-BASED, TWO-COMPONENT, SEMIMAT, FINISH ALIPHATIC COATING

### GENERAL CHARACTERISTICS

**POLYSPORT 1052-SEMIMAT** is a polyurethane, two-component, solvent-based, semi-mat finish aliphatic coating for outdoor sports surfaces.

- It is applied as a final, sealing layer on top of playground floorings made of **SBR rubber granules** plus **PU binder** mixture, or **EPDM** plus **PU binder** mixture, on safety tiles and on top of polyurethane outdoor sports systems such as **POLYFLEX PU-EX**.
- It is UV-resistant and thus absolutely suitable for outdoor surfaces, including running tracks, for UV-protection in case of sensitive, light colors such as blue, orange, green.
- Ideal for protection of EPDM rubber flooring.

### TECHNICAL DATA

Mixing Ratio (colored)	85 :15 (By weight)
Density (25°C)	1.38-1.48 kg/lit
Viscosity (25°C)	1.000-3.500 mPas
Application Temperature	15 – 40 °C
Curing (25°C)	9-12 hours
Color	KDF colorchart

### 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.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 15° C during application and curing of the materials while relative humidity does not exceed 75%.
- The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring, the hardener (B component) should be added. Continue stirring until a homogeneous mix is obtained.
- The application is done by airless sprayer or short-haired mohair roller in 2 crossing layers.

## CONSUMPTION

200-250 gr/m<sup>2</sup> on polyurethane floorings

400-500 gr/m<sup>2</sup> on running tracks or EPDM surfaces.

Apply two layers at least.

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## APPLICATION TOOLS

Short-haired mohair paint roller or airless sprayer. Tools should be cleaned with **PU SOLVENT** immediately after use.

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## STORAGE

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

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## REMARKS

- Working time of **POLYSPORT 1052-SEMIMAT** decreases when ambient temperature rises.
  - Prolonged storage of partially used containers, containing **POLYSPORT 1052-SEMIMAT** must be avoided, as contact with atmospheric moisture could possibly cause clouding of the product.
  - After hardening **POLYSPORT 1052-SEMIMAT** is completely safe for health.
  - The second layer of **POLYSPORT 1052-SEMIMAT** has to be applied strictly within 24 hours, depending on the temperature and humidity (European conditions) **or within 3-6 hours (GCC high-temperature conditions)** in order to cover the surface swiftly and protect it from unwanted weather or other adverse conditions (sand dust, accumulated dirt or foreign matter etc.). In case the 24-hour limit (Europe) or the 3-6-hour limit (GCC) is surpassed or weather or other adverse conditions interfere between layers at any time, the surface might need sanding again to restore smoothness and cleanliness before applying subsequent layers of the aliphatic top coat.
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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 safety data sheet.**

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