

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:	100 – 500 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 or 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 curing time. **PU PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, the wet-pour mixture of SBR and **PU BINDER 1118** can be applied on the still 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.**

CONSUMPTION

200-300 gr/m² depending on the type and the absorbcency of the underlay.

APPLICATION TOOLS

Brush, roller or 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.
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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.

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.

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

- 18% **PU BINDER 1118** and 82% **RECYCLED RUBBER 858**, for sports flooring.
- 14% **PU BINDER 1118** and 86% **RECYCLED RUBBER 858**, for playground flooring.
- 20% **PU BINDER 1118** and 80% **RECYCLED RUBBER 858** for **SAFEPOL COLOURANT**.
- 17% **PU BINDER 1118** and 83% **EPDM 856**.

APPLICATION TOOLS

For the mixture **PU BINDER 1118** and **RECYCLED RUBBER 858** or: paver machine or rake, straightedge, flat metal trowel, cylinder weighing 8-15kg



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.

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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.

CAUTION

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For more information consult the material safety data sheet.

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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 ³
SPECIFIC GRAVITY	1.20+/-0.05 (Water = 1.0)
HARDNESS	60
HUMIDITY(%)	<0.65
ELASTICITY	100% - No change
RESISTANCE	113N/cm – Excellent

KDF

Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

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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- In case of sprayed coated running track system, it is suggested the usage of POLYSPORT 1052 UV resistant coating where the color shade is green or blue or any other except red color which doesn't need any protection.
- Same can be applied for long term color stability also for the POLTRACK SANDWICH SYSTEM over broadcasted EPDM granules.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc. will alter.
- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the correct type of PU-binder (normal aromatic binder or aliphatic 2-component binder) according to the type and color of the EPDM rubber granules.

CERTIFICATES AND TEST REPORTS

Ask for our certificates and test reports for EPDM as:

- pAH and Elements acc. to EN 71-3
- UV resistance test (FIFA Test Method 10)
- SRI (Solar Reflectance Index)
- Weathering Resistance
- Water Resistance
- Dimensional Stability
- Temperature Resistance

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Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

Components A & B (hardener) packed into separate containers in fixed weight proportions are mixed together 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 uniform dispersion of the hardener. The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container 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 polyurethane mixture is poured on the floor and spread using V - notched trowel 5.5 mm, with parallel use of special spiked-roller in order to release any possibly entrapped air and avoid the formation of bubbles.
- The next day, depending ambient temperature follows application of finishing paint **POLYSPORT 1052** in two layers.

CONSUMPTION

2.0 - 2.2 Kg/m² for 1 layer

APPLICATION TOOLS

V - Notched trowel 5.5 mm, spiked-roller. Tools should be cleaned with **PU SOLVENT** immediately after use.



PACKAGING

Set of 280 kg (barrel and drums).



STORAGE

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

REMARKS

- Substrate must be dry, clean, free from dust, grease and oil. Application must be done between 10°C and 40°C.
- In case the layer of PU self-leveling is applied after more than 24 hours of the application

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of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU self-leveling can be applied.

CAUTION

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EPDM DUST

(Ethylene Propylene Diene Monomer Rubber)

RUBBER GRANULES

GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.5-1.5mm, 0 – 0.5mm

PERFORMANCE OF SAMPLE WITH 22% EPDM CONTENT

Test item	Performance	Standard
Tensile strength (N/mm ²)	>1	ASTM D412-6
Elongation at break (%)	>800	ASTM D412-6
Hardness (shore A)	65	ASTM D2240-15
Specific gravity (kg/m ³)	1.51 ± 0.05	ASTM D792-20

PREPARATION-APPLICATION

Applications: sports courts, running tracks, jogging tracks, tennis courts, swimming pools, wet pour play surface, kids playground, indoor and outdoor flooring systems, infilling the artificial turf or for making rubber tiles.

REMARKS

- It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance top coat **POLYSPORT XP 1069**, which gives a strong UV protection and doesn't allow the change of color to occur. **POLYSPORT XP 1069** is produced in all EPDM colour range and needs to be applied with 0,4 kg/m² in two crossing layers by airless sprayer or rollers.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc will alter.
- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the PU-binder according to the type and color of the EPDM rubber granules.

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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, with 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)	1.30-1.40 kg/lit
Viscosity (25°C)	800-2.500 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/m² on polyurethane floorings

400-500 gr/m² on running tracks or EPDM surfaces.

Apply two layers at least.

APPLICATION TOOLS

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



PACKAGING

Supplied in set of 20 Kg (two drums).



STORAGE

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

REMARKS

- In case the layer of PU top coat is applied after more than 24 hours of the application of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU top coat can be applied.
 - 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.
 - 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.
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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.

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