KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

EDITION: DECEMBER 2021

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.**

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CONSUMPTION

200-300 gr/m^2 depending on the type and the absorbency 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^{o}C and maximum temperature 30^{o}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.

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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)	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.

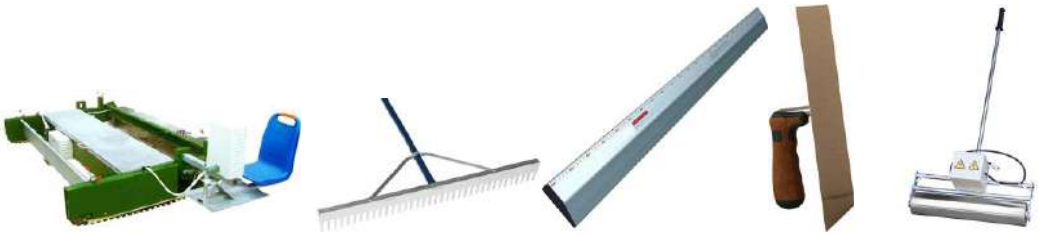
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or by hand, if the applicator is experienced, with rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg 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

- 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 5ºC and maximum temperature 30ºC.

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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

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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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/cm³
SPECIFIC GRAVITY	1.20+/-.05 (Water = 1.0)
HARDNESS	60
HUMIDITY(%)	<0.65
ELASTICITY	100% - No change
RESISTANCE	113N/cm - Excellent

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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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KDF TPV GRANULES

Thermoplastic vulcanized rubber granules

GENERAL CHARACTERISTICS

KDF TPV is a colored granulate and is the alternative to the epdm granules presently available for the use in impact absorbing rubberized sports surfaces.

KDF TPV has been formulated to give excellent performance at a realistic price.

KDF TPV offers excellent thermal stability and does **not** leach out carbon black or colored pigments like many of its rivals on the market. The product has an excellent stability and is not flammable.

KDF TPV offers better color consistency and has better performance than epdm granules.

KDF TPV will not self-ignite nor is it flammable.

KDF TPV offers you the next generation of consistent colored granulate for a resilient, hardwearing outdoor or indoor safety surface

TECHNICAL DATA

Density	800-900kg/m3
Hardness	65-70 Shore A
Tensile strength	> 4.0MPa
Elongation at break	>400%
Specific gravity	1,55±0,05kg/cm3
Base polymer	≥20%
Curing system	Peroxide cured
Shape	Cubic, mechanically cut
Colors	12 shades

PREPARATION-APPLICATION

KDF TPV is highly durable and is seen as a major breakthrough for the use in children's safety surfacing, multi-games areas, general sports surfacing, swimming pool surrounds, running tracks and rubber play tile production. It offers excellent compatibility with polyurethane binders and adhesives.

STANDART GRAIN SIZE

1,0 - 4,0 mm and others on request.

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REMARKS

No risk towards human health and/or environment because of carefully selected ingredients .

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POLYSPORT XP 1069

UV resistant, two component coating for the protection of EPDM surface

GENERAL CHARACTERISTICS

POLYSPORT XP 1069 is a two-component, mat finish coating created for the UV protection of playground flooring, made from **EPDM** or **TPV granules** (wet pour flooring) or rubber tiles.

It is applied as a final, protective layer on top of playground flooring made from **EPDM granules** plus **PU binder** or also on recycled rubber tiles or **EPDM** tiles to maintain their colour.

- It doesn't change the EPDM structure or alter its appearance if applied properly by airless sprayer or properly even by simple rollers.
- It is UV-resistant and thus absolutely suitable for outdoor playground rubber surfaces.
- Ideal for renewing and refreshing old EPDM or rubber surfaces.

TECHNICAL DATA

Mixing Ratio	90:10 by weight
Density (25°C)	1.22-1.32Kg/lt
Viscosity	4.000-8.000 mPa•s at 25ºC
Application Temperature	Min 10 - 40°C
Curing	3-4 hour at 25°C
Color	KDF's EPDM 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 squeegee.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 10ºC 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 of the B component should be added. Continue stirring until a homogeneous mix is obtained. Must be diluted with 15-20% water after mixing the A & B component prior application.
- Airless sprayer (ideal tool for the application) or α short-haired mohair roller can apply **POLYSPORT XP 1069**.

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CONSUMPTION

0.3 -0.4 kg per square meter, depending on the **EPDM** structure, in 2 layers.

APPLICATION TOOLS

Airless sprayer or shorthaired mohair roller.

PACKAGING

Set of 20Kg - 18Kg A comp., 2Kg B comp.

STORAGE

One year in unopened containers in dry places with minimum temperature 5^{o}C and maximum temperature 30^{o}C (avoid sunlight).

REMARKS

- Working time of **POLYSPORT XP 1069** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYSPORT XP 1069** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- After hardening **POLYSPORT XP 1069** is completely safe for health.

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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