

KDF

Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

CONSUMPTION

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

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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+/- .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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EPDM 856

RUBBER GRANULES

GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.8-2.5mm,1.0-3mm,1.0-4mm or others

PERFORMANCE OF SAMPLE 25%

Test item	Performance
Tensile strength (Mpa)	>4.3
Elongation at break (%)	>735
Hardness (shore A)	60-65
Specific gravity (kg/cm ³)	1.45 ± 0.05

PREPARATION-APPLICATION

EPDM 856 granules are basically used for wet pour colored playground floorings (granulometry 1-3mm), for flexible multipurpose outdoor courts in 10-20 mm, SYSTEM COLORFLEX, and in applications of running track system such as POLTRACK SANDWICH SYSTEM (granulometry 1-3mm) and POLTRACK SPRAYCOAT SYSTEM (granulometry 0.5-1.5 mm).

Can be used also as infill of artificial synthetic turf or in the production of epdm rubber tiles or even loose lay and around swimming pools as a flexible flooring.

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.

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- 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 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/m², 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/m² on polyurethane floorings

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

Apply two layers at least.

APPLICATION TOOLS

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

STORAGE

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

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.

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