

KDF

Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

CONSUMPTION

200-300 gr/m² 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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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.

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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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ELASTOTURF 851S - SMOOTH

SPECIAL, ELASTIC, SMOOTH COATING FOR INTERNAL SPORT COURTS

GENERAL CHARACTERISTICS

ELASTOTURF 851S is acrylic-based, elastic, smooth colored coating for internal sport courts.

Is combined with prefabricated shock- pad roll in thickness of 4mm to 14 mm or a wet-pour mixture of **SBR granules** (0.5 – 2.0 mm granulometry) **plus PU BINDER** in order to seal the pores and plasticize the floor.

- Ideal for multipurpose courts, basketball, volleyball, handball, football and tennis internal courts. Suitable for sports centers, schools, fitness centers, hallways.
- Applied easily, having low cost.
- Provides a safe, high quality game.

TECHNICAL DATA

| | |
|---|--|
| Basis: | one-component acrylic resin |
| Appearance: | viscous liquid |
| Colors: | available in 24 colors form KDF colorchart |
| Temperature for the application and drying of the material: | 10 – 40 °C |
| Viscosity: | 22.000 – 32.000 mPa•s at 25°C |
| Density | 1.70 – 1.80 Kg/Lt |
| 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.
- Application of the material (in three or more layers) on prefabricated shock-absorbent rolls in thickness of 4mm to 14mm or on wet-pour made from the mixture of **RECYCLED RUBBER 858 (0.5 -2.0 mm granulometry)** and **PU BINDER 1118** (in three or more layers), for sealing the pores of the underlay and plasticize the surface.

- Depending on the ambient temperature, **ELASTOTURF 851S** is diluted with 2-3% water, prior to application, in order to achieve better fluidity. The next layer is applied after the previous starts to dry.
- Before the application of the second layer and after the application of the final layer (before applying **TOP COAT POLYSPORT 952**), always use a sanding machine.
- The next day, depending on the ambient temperature follows the application of **TOP COAT POLYSPORT 952** in 2 crossing layers by a short-haired mohair roller or even better by airless sprayer.

CONSUMPTION

- 2.2 – 2.5 kg/m² (three layers on shock-pad)
- 3.5 – 3.8 kg/m² (three layers on wet-pour shock-pad)

APPLICATION TOOLS

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

PACKAGING

Supplied in barrels of 200 Kg.

STORAGE

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

REMARKS

- During temperatures over 40°C, ideal time for the application of **ELASTOTURF 851S** is between 22:00-9:00 a.m. and the minimum bearing temperature during application and drying should be 10°C.
- The freshly coated surface should be protected from high temperatures 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.

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POLYSPORT 952-SEMIMAT

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

GENERAL CHARACTERISTICS

POLYSPORT 952-SEMIMAT is a polyurethane, two-component, solvent-based, semi-mat, finish aliphatic coating for indoor sports surfaces.

- It is applied on polyurethane, self-leveling coating **POLYSPORT PU 951** as a final, sealing layer of a multilayer polyurethane floor especially designed for sport halls such as tennis, basketball, handball, volleyball and multipurpose halls.
- Applies easily with short-haired mohair roller and airless sprayer.
- Provides a surface with anti-slip properties.

TECHNICAL DATA

| | |
|---|----------------------------------|
| Basis: | two-component polyurethane paint |
| Appearance: | liquid |
| Colors: | KDF colorchart |
| Viscosity(25°C): | 1000-3500 mPas |
| Density(25°C): | 1.38-1.48 kg/lit |
| Mixing proportion (A:B): | 85:15 by weight |
| Temperature for the application and drying of the material: | 15 – 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 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%.
- Application of prefabricated sub-floor **ISOPOL 854** using **PU FLEX 140** or wet-pour rubber cushion mix of SBR rubber and **PU BINDER 1118**.
- Sealing of surface porosity of **ISOPOL 854** or the wet-pour rubber cushion mix of SBR rubber and **PU BINDER 1118** using elastic pore sealer **POLYSPORT STUCCO 950** and application of self-leveling coating **POLYSPORT PU 951**.
- The next day, depending on the ambient temperature follows the application of **POLYSPORT 952-SEMIMAT** in two crossed layers. The second layer is applied after the

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first layer has dried (within 24h). 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 application is done by airless sprayer or short-haired mohair roller in 2 crossing layers.

CONSUMPTION

App.200-250 gr/m², for two layers.

APPLICATION TOOLS

Short-haired mohair paint 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.
- In case the second layer of PU top coat 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.
- Working time of **POLYSPORT 952-SEMIMAT** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYSPORT 952-SEMIMAT** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- All surfaces should be thoroughly cleaned from dust and residues prior each application.
- After hardening **POLYSPORT 952-SEMIMAT** 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.

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