

## PU FLEX 140

SPECIAL PU GLUE FOR THE APPLICATION OF PREFABRICATED SHOCK ABSORBENT ROLLS

### GENERAL CHARACTERISTICS

**PU FLEX 140** is a two component, adhesive for the application of prefabricated shock-absorbent rolls made of recycled rubber or from EPDM granules and also for safety tiles.

- It is applied on dry, sealed surfaces of mosaic, concrete or asphalt.
- Suitable for interior and exterior use.
- Provides good filling properties.
- Non shrinking.

### TECHNICAL DATA

Mixing ratio:	93.33 : 6.67 (By weight)
Density (25°C):	1.80-1.90 kg/l
Viscosity	15.000-26.000 mPas
Pot-life (25°C):	20-30 min.
Application temperature:	Min 10°C
Curing (25°C and %60 relative humidity):	6 - 9 hours
Color and odor:	Beige

### PREPARATION-APPLICATION

**Applied only on dry, level surfaces. Protected from arising humidity 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 using brushes and air spray.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a 300-600 rpm mixer for 2-3 min until a uniform mass is obtained. 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 mixed adhesive **PU FLEX 140** is applied under each roll using a V notched trowel (2mm), as soon as possible in order to avoid any problems with the limited pot life. A roller should be used on the top of the shock absorbent rolls within an hour after the adhesive has been mixed.
- Light foot traffic is permitted after 6 hours. Full curing needs 2 days.

## CONSUMPTION

1 – 1.5 kg/m<sup>2</sup> depending on the sub-floor and type of floor covering.

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## APPLICATION TOOLS

V - Notched trowels (2mm). Tools should be cleaned with **PU SOLVENT** immediately after use.

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## PACKAGING

Supplied in set of 24 Kg.

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## STORAGE

One year 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 **PU FLEX 140** decreases when ambient temperature rises.
  - Avoid application of **PU FLEX 140** during rain, moist or foggy weather.
  - Prolonged storage of partially used containers containing **PU FLEX 140** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
  - When laying flooring over an underfloor heating system, caution must be taken so that the heating system is left in full operation for at least 8-10 days before the application. The screed must be dry prior application. Before laying, however, the heating system must be switched off or reduced, so that a surface temperature of 20-22 °C is not exceeded.
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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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**KDF - Kataskeves Dapedon LTD**  
e : [exports@kdf.gr](mailto:exports@kdf.gr) w : [www.kdf.gr](http://www.kdf.gr)



**Showroom Office**  
1 Papanikolaou Ave, Pefka  
57010, Thessaloniki, Greece  
t / f : 0030 2310 829598  
**Accounting Office**  
19 Mitropoleos Str  
54624, Thessaloniki, Greece

## ISOPOL 854 SHOCK ABSORBENT UNDERFLOOR

### GENERAL CHARACTERISTICS

Elastic, prefabricated roll made of polymerically bound recycled rubber particles for shock-absorbency, in thickness of 3mm up to 14mm. It is covered with the acrylic coating **ELASTOTURF 851** or self-leveling PU coating, in thickness of 2mm, for the creation of athletic floorings for interior & exterior surfaces like basketball, volleyball, handball, football and tennis courts as well as for playgrounds. The point elastic sport surface possess good elasticity and force reduction characteristics as well as fulfilling a protective function for the athletes' joints and muscles. Its special cushion properties are indeed recommended for multipurpose.

**Suitable for external & internal courts with acrylic top coatings, internal halls with PU top coating, gyms, cross-fit areas and generally areas which need elastic flooring. Ideal also as sub-floor for athletic tracks.**

- ✓ Offers noise abatement
- ✓ Slip resistant
- ✓ Fire resistant
- ✓ Environmentally friendly
- ✓ Flexible
- ✓ Resistant against moisture, heat and mildew
- ✓ Easy application

### PREPARATION- APPLICATION

The sub-surface on which the material will be installed must be completely dry and clear of all foreign matter and free of dust, dirt, oil or any kind of spills.

The material surface will follow the contours of the sub-surface, which it covers. The smoother the sub-surface, the better the shock-absorbent material surfacing finishes.

Place the **ISOPOL 854** rolls on the floor in their final positions without gluing them. Lift each side of each roll and apply the PU glue by a V-notch trowel with 2mm teeth and then glue the rolls immediately without waiting.

In case there are small bulges (humps, swollen parts) on the roll after its application, you'll have to tear it around the edge of the hump without removing it completely, raise that small part, put some PU glue underneath and glue the hump part again, making sure this time it's flat. Weights such as sand bags have to be used on the edges, corners and seams of the shock absorbent roll surface installation until the PU glue is cured. Then you let everything dry.

Do not overlap the rolls but bring them as close together as possible to eliminate gaps. The usage of a light cylinder (10-15kg maximum) will help to compact the rolls on the floor.

It is recommended that the joints (only) are covered flush with ELASTOTURF 851 or PU FLEX

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140 with a flat trowel (or a brush) along their whole length, so that the surface is leveled out. Next day the joints are ground lightly with sandpaper or other grinding device to smooth out the joints with the rest of the surface and create the required roughness.

**COLOR** Black.

**SURFACE** Fine tuned granules structure.

**DIMENSIONS** Rolls Width : 1050mm, 1250mm or 2100mm  $\pm$  1.5%  
Rolls Length according to demand.

**THICKNESS** 4- 14mm  $\pm$  0.3mm

**DENSITY** 730 kg/m<sup>3</sup>  $\pm$  5%

**TECHNICAL DATA**

Tensile strength: approx.0,56 MPa at 7mm: approx. 0,65 MPa at 10mm (DIN EN ISO 1978)

Elongation at break: approx.57% at 7mm: approx. 60% at 10mm (DIN EN ISO 1978)

Force reduction\*:  
8 mm Isopol 25 %  
10 mm Isopol 30 %  
(Value for mats only, not on complete floor)

Vertical deformation\*: 1,2 mm at 8 mm Isopol

\*Values measured on a sport hall system sample.

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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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1 Papanikolaou Ave, Pefka  
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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 <sup>3</sup> )	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/m<sup>2</sup> 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/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

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