KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

EDITION: DECEMBER 2021

# 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: | 87.5% : 12.5% (By weight) |
| Density (25°C): | 1.67-1.77 kg/lt |
| Viscosity | 9.000-18.000 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 (3mm), 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 (25°C). Full curing needs 2 days.

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**CONSUMPTION**

1 – 1.5 kg/m$^2$ depending on the sub-floor and type of floor covering.

**APPLICATION TOOLS**

V - Notched trowels (3mm). Tools should be cleaned with **PU SOLVENT** immediately after use.

**PACKAGING**

Supplied in set of 24 Kg.

**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 **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 $^o$C is not exceeded.

**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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# 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

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**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 3mm notches 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 140** with a flat trowel (or a brush) along their whole length, so that the surface is leveled out.

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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 ± 1.5%

Rolls Length according to demand.

**THICKNESS** 4- 14mm ± 0.3mm

**DENSITY** 730 kg/m$^3$ ± 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.

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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# POLYSPORT STUCCO 950

POLYURETHANE, ELASTIC, TWO-COMPONENT PORE FILLER

## GENERAL CHARACTERISTICS

**POLYSPORT STUCCO 950** is elastic solvent-free, two component polyurethane based sealant for indoor sport surfaces.

**POLYSPORT STUCCO 950** has very good filling capacity and thixothropic 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 | 88,64 : 11,36 (By weight) |
| Density of mixture (25°C) | 1.50-1.60 Kg/lt |
| Viscosity of mixture (25°C) | 70.000-90.000 mPa•s at 25ºC |
| Pot-life (25°C) | 20-30 min at 25ºC |
| 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 25ºC The surface must be dry and clean from dust and residues. Application is done by flat metal trowel.

## CONSUMPTION

0.8 - 2.5 kg/m², depending on the porosity of the substrate.

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**APPLICATION TOOLS**

Flat metal trowel.

**PACKAGING**

250 kg – set of barrels and drums.


**STORAGE**

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5ºC and maximum temperature 30ºC.

**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 PU 951

POLYURETHANE-BASED, TWO-COMPONENT, SELF-LEVELING COATING

## GENERAL CHARACTERISTICS

**POLYSPORT PU 951** is a solvent-free, polyurethane-based, two-component, self-leveling coating for indoor sports surfaces.

**POLYSPORT PU 951** has excellent mechanical properties, like high impact.

It is applied on prefabricated subfloors of sports flooring such as **ISOPOL 854**, shock-pad in rolls, or wet-pour rubber cushion mix of SBR rubber granules and **PU BINDER 1118** after they are sealed with elastic pore sealer **POLYSPORT STUCCO 950**. Combines finally with polyurethane finish paint **POLYSPORT 952** for the creation of a multilayer polyurethane floor, especially designed for sport halls such as tennis, basketball, handball, volleyball and multipurpose halls.

- Applies easily with trowel, providing excellent self-leveling properties.
- Highly flexible and elastic contributing in the athletic performance of the flooring.
- Non shrinking.

## TECHNICAL DATA

| | |
|---|---|
| Mixing Ratio (By weight) | 86,96 : 13,04 By weight |
| Density mixture (25°C) | 1.40 – 1.50 Kg/Lt |
| Viscosity(25°C) | 3.500 – 8.000 mPa•s at 25ºC |
| Pot-life (25°C) | 20 - 30 min at 25° C |
| Hardness (Shore A) | 80 |
| Application temperature | 10 – 40 °C |
| Curing (25°C and %60 relative humidity) | After 24 hours |
| Color | KDF's Color chart |

## 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 10º 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


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rubber cushion mix of SBR rubber and **PU BINDER 1118.**

- Sealing of surface porosity of **ISOPOL 854** using elastic pore sealer **POLYSPORT STUCCO 950**.
- Care should be taken that the porosity of prefabricated subfloor **ISOPOL 854** using **POLYSPORT STUCCO 950** is eliminated to avoid surface defects on the final surface of **POLYSPORT PU 951**.
- The next day, depending ambient temperature, follows application of **POLYSPORT PU 951**. 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 25ºC.
- 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 952**.

**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 drum).


**STORAGE**

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



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## REMARKS

- In case the layer of PU self-leveling 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 self-leveling can be applied.

- Working time of **POLYSPORT PU 951** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYSPORT PU 951** 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 PU 951** 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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# POLYSPORT 952-SEMIMAT

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

## GENERAL CHARACTERISTICS

**POLYSPORT 952-SEMIMAT** is a polyurethane, two-component, solvent-based, with 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$^0$C): | 800-2500 mPas |
| Density(25$^0$C): | 1.30-1.40 kg/lt |
| Mixing proportion (A:B): | 85:15 by weight |
| Temperature for the application and drying of the material: | 15 – 40$^o$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 squeegee.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 15$^o$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



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**POLYSPORT 952-SEMIMAT** in two crossed layers. The second layer is applied after the 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 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.

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- After hardening **POLYSPORT 952-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.

**For more information consult the safety data sheet.**

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