KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

EDITION: MAY 2019

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/lt
Viscosity	28.000-38.000 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(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 (2mm). 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 to14mm. 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

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 ± 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.

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EDITION: JANUARY 2021

ELASTOTURF 851-CON

CONCENTRATED ACRYLIC RESINS USED FOR THE CREATION OF COLORED, ANTI-SLIP ELASTOTURF 851

GENERAL CHARACTERISTICS

ELASTOTURF 851-CON is a concentrated acrylic-based material that is mixed with round quartz sand (0.1 – 0.4 mm) in order to create colored, non-slip sport grounds.

- Applied on matured asphalt surfaces or cement waterproofed surfaces without rising humidity issues following the application of **ELASTOSPORT 853**.
- It is recommended mixing of **ELASTOTURF 851-CON** with quartz sand and water in ratio of 1,5 part of **ELASTOTURF 851-CON** (42,85%), 1,5 parts of quartz sand (42,85%) and 0,5 parts of water (14,3%) by weight.
- Ideal for basketball, volleyball, handball, football and tennis external courts. Suitable for sports centers, schools, fitness centers, pavements, hallways.
- Applied easily, having a low cost.
- Provides a safe, high quality game.
- For the creation of lines in sport courts it is recommended the use of acrylic paint **ELASTOMARK** in any desirable color.

TECHNICAL DATA

Basis:	one-component acrylic resin
Appearance:	viscous liquid
Colours:	KDF colorchart
Viscosity:	20000-30000 mPa•s at 25°C
Density:	1.2 – 1.3 Kg / Lt
Temperature for the application and drying of the material:	10 – 40°C
Walkability:	after 24 hours at 25°C
Total Hardening:	5 days at 25°C

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PREPARATION-APPLICATION

Applied only on dry surfaces. Protected from rising 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 with vacuum cleaner.
- Priming of the surface, except in case of using shock-absorbent rolls, with joining resin **RITIVEX 1102** for the proper adhesion of the sub-floor. Application of the material in one or more layers until the surface is saturated. Avoid the creation of puddles of the material. Consumption: 150-200gr/m^2 in two layers, depending on the absorption of the underlay.
- When the primer begins to dry (approximately one hour depending on the ambient temperature), follows the application of **ELASTOSPORT 853** for sealing the pores of the underlay. Alternatively, the substrate can be a prefabricated shock-pad in thickness 4-12 mm or an in-situ rubber shock-pad of **SBR plus PU BINDER.**
- As soon as the material dries (within 24 hours at 25^{0}C), follows the application of **ELASTOTURF 851-CON** mixed with quartz sand and water, in ratio of 1,5 part of **ELASTOTURF 851-CON** (42,85%), 1,5 parts of quartz sand (42,85%) and 0,5 parts of water (14,3%) by weight.

CONSUMPTION

- System **SPORTFLOOR-EX-R**: 0.63kg/m² of **ELASTOTURF 851-CON/H** for three layers plus 0.63kg/m² of quartz sand, for 1.47kg of final product
- System **FLEXFLOOR-EX-R**: 0.75kg/m² of **ELASTOTURF 851-CON/H** for three layers plus 0.75kg/m² of quartz sand, for 1.75kg of final product
- System **POLYFLEX AEL-EX-R**: 1.07kg/m² of **ELASTOTURF 851-CON/F** for three layers plus 1.07kg/m² of quartz sand, for 2.5kg of final product
- System **WET-POUR POLYFLEX AEL-EX-R**: 1.5kg/m² of **ELASTOTURF 851-CON/F** for three layers plus 1.5kg/m² of quartz sand, for 3.5kg of final product

APPLICATION TOOLS

Rubber squeegee. Tools should be cleaned with **WATER** immediately after use.

PACKAGING

Supplied in 100 kg barrels.

STORAGE

12 months in unopened containers in dry places with minimum temperature 5^{o}C and high temperature 40^{o}C (avoid direct sunlight).

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REMARKS

- Application of **ELASTOTURF-CON/H**, hard version, for **SPORTFLOOR-EX SYSTEM**, and application of **ELASTOTURF-CON/F**, flexible version, for wet-pour systems or on shock-pad rolls.
- In case of extremely rough cement or asphalt surfaces it is recommended grinding of the surface with a mosaic machine before the application of **ELASTOSPORT 853**.
- Our recommendation is that the asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer(and not 2) in 6 to 8 cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.
- So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.
- During summer or in condition of very hot climates, ideal time for the application of the material is between 22:00 p.m. and 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, wind, rain 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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