

ELASTOTURF 851

SPECIAL, ELASTIC, LEVELING COATING FOR INTERNAL AND EXTERNAL SPORT FIELDS

GENERAL CHARACTERISTICS

ELASTOTURF 851 is acrylic-based, elastic, colored, non-slip coating for external and internal sport fields, certified by the **INTERNATIONAL TENNIS FEDERATION (I.T.F.)**.

- Applied on asphalt and cement waterproofed surfaces without rising humidity issues, following the application of **ELASTOSPORT 853** or **SUPER ELASTOCOAT 842**.
- It can be also combined with prefabricated shock-absorbent rolls in thickness 4-14mm or elastic cushion sub floor **SUPER ELASTOCOAT 842**.
- Ideal for basketball, volleyball, handball, football and tennis external courts. Suitable for sports centers, schools, fitness centers, pavements, hallways.
- Applied easily, having low cost.
- Provides a safe, high quality game.
- Prevents high temperatures of the underlay.
- For interior surfaces, the smooth version of **ELASTOTURF** is used (**ELASTOTURF 851-S**). This should be combined with prefabricated shock-absorbent roll in thickness 4-12 mm or a rubber mixture of **SBR plus PU BINDER** and then at least 3,5 kg/m² of ELASTOTURF 851S in order to seal the pores and plasticize the flooring.
- For the creation of lines in sport courts it is recommended the use of acrylic paint **ELASTOMARK 818** in any desirable color.

TECHNICAL DATA

Basis:	one-component acrylic resin
Appearance:	viscous liquid
Colors:	Indian red, green, ochre, light and dark blue, light and dark grey and on request
Viscosity:	
Density:	24000 ± 1250 mPa•s at 23°C
Temperature for the application and drying of the material:	1,61 ± 0,01 gr/cm ³ 10 – 35°C
Walkability:	after 24 hours
Total Hardening:	5 days at 23°C
Adhesive strength:	1,20 ± 0,08 N/mm ²

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.
- Priming of the surface, except in case of using shock-absorbent rolls, with bonding resin primer **RITIVEX 1102** for the proper adhesion of the sub-floor. Application of one or more layers until the surface is saturated. Avoid the creation of puddles of the material. Consumption: 150-200gr/m² in two layers, depending on the absorption of the underlay.

EXTERNAL SURFACES

- When the primer begins to dry (approximately 1 hour depending on the ambient temperature), follows the application of **ELASTOSPORT 853**, or **SUPER ELASTOCOAT 842**, for sealing the pores of underlay. Alternatively, the substrate can be prefabricated shock-pad in thickness 4-12 mm or an in-situ rubber shock-pad of **SBR plus PU BINDER**.
- As soon as **ELASTOSPORT 853**, or **SUPER ELASTOCOAT 842**, dries (48 hours at 23⁰C), follows the application of **ELASTOTURF 851**.
- Depending on the ambient temperature **ELASTOTURF 851** is diluted with 2-5% water, prior to application, in order to achieve better fluidity. It is applied in 1mm thickness, in two or three coatings depending on the desirable thickness. The next layer follows the other after the previous starts to dry.

INTERNAL SURFACES

- Application of the material on prefabricated shock-absorbent rolls in thickness 4-12mm or a rubber mixture of **SBR plus PU BINDER**, for sealing the pores of the underlay and plasticize the surface.
- Depending on the ambient temperature, **ELASTOTURF 851** is diluted with 2-5% water, prior to application, in order to achieve better fluidity. The next layer follows the other after the previous starts to dry.

CONSUMPTION

- 1 kg/m² (two layers on ELASTOSPORT 853 resurfacer)
- 1.3-1.5 kg/m² (three layers on ELASTOSPORT 853 resurfacer)
- 1.8 kg/m²/mm (three layers on ELASTOSPORT or SUPERELASTOCOAT)
- 3,8 kg/m²/mm (three or more layers on shock-pad)

APPLICATION TOOLS

Special squeegees. Tools should be cleaned with **WATER** immediately after use.

PACKAGING

Supplied in barrels.

STORAGE

Maximum 18 months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C.

REMARKS

- In case of extremely rough and sharp cement or asphalt surfaces it is recommended grinding of the surface with a mosaic machine, sandblast or rotor machine before the application of **ELASTOSPORT 853**.
 - **ELASTOTURF 851** should not be applied in more than 0.6 kg/m² per layer. In case of high temperature during summer, layers thicker than 1mm should be avoided because the material may crack due to the rapid evaporation of water. Lining thickness more than 1mm is achieved only by repeated layers.
 - During summer, ideal time for the application of **ELASTOTURF (851)** is between 6:00-9:00 a.m. and temperature less than 35°C, while in the winter, 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.
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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 material 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.