

RITIVEX R LIQUID 1102

ACRYLIC, ADHESIVE RESIN FOR MULTIPLE USES

GENERAL CHARACTERISTICS

- Acrylic, adhesive, joining resin, water - based.
- It is the suitable primer before the application of **ELASTOSPORT 853**, **ELASTOTURF 851** and **CORRIDOL 864** on athletic courts.
- It is used mainly as primer on asphalt and as primer for joining old and new concrete and as a primer on surfaces, before over coating them with concrete paints, emulsion paints, or cementitious coatings.
- **RITIVEX R LIQUID 1102** is applied in thin films.

TECHNICAL DATA

Appearance:	Water emulsion
Colors:	White
Density:	1.0-1.1 kg/lit at 25 °C
Viscosity:	15-45 mPa sec at 25°C
Temperature for the application and drying of the material:	10 – 40°C

CONSUMPTION

200-400 gr/m² depending on the type, roughness and absorbency of the underlay.

PACKAGING

Supplied in 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.

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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ELASTOSPORT 853 COLORED-R

CONCENTRATED, ACRYLIC RESURFACER FOR ATHLETIC COURTS

GENERAL CHARACTERISTICS

ELASTOSPORT COLORED 853-R is acrylic-based, colored, resurfacer for basketball, tennis, volleyball and handball courts. Silica sand must be added in order to be able to use the material in the application of the sports flooring system.

Smoothens and upgrades rough courts in two or more coatings depending on the porosity of the flooring.

- Minimizes the cost of reparation of sports grounds.
- Applied easily without prior experience.
- **ELASTOSPORT 853-R COLORED**, it should be covered with **ELASTOTURF TOP** or **ELASTOTURF 851**.
- Mixing ratio in weight 50% **ELASTOSPORT COLORED 853-R** and 50% silica sand plus 4-6% water in the mix.

Provides:

- Safe game.
- Perfect bounce of the ball.

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

TECHNICAL DATA

Basis:	acrylic resins, fillers
Appearance:	viscous liquid
Colors:	24 colors, KDF colorchart
Viscosity:	4.000-10.000 mPa•s at 25°C
Density:	1.48-1.58 gr/cm ³
Temperature for the application and drying of the material:	10 – 40°C after 1 day at 25°C
Walkability:	

PREPARATION- APPLICATION

Applied only on dry 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 with vacuum cleaner or air blower and squeegees.
- Priming of the surface with joining resin **RITIVEX 1102** for the proper adhesion of the material. Application of one or two layers until the surface is saturated. Avoid the creation of puddles of the material.
- When the primer is dry (approximately 1 hour depending on the ambient temperature), follows the application of **ELASTOSPORT COLORED 853-R**, after adding silica sand in granulometry of 0.3-0.5mm. Proportions in weight 50% **ELASTOSPORT COLORED 853-R** and 50% silica sand plus 4-6% water in the mix.
- **ELASTOSPORT COLORED 853-R** is applied in two layers, depending on the desirable thickness and the roughness and absorbency of the surface. Each new layer is applied after the previous one has dried.
- Follows the application of one layer of **ELASTOTURF TOP**.

CONSUMPTION

1.0-1.5 kg/m² in two or three layers, as concentrated material, **ELASTOSPORT COLORED 853-R**, depending on the porosity of the surface.

APPLICATION TOOLS

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

PACKAGING

Supplied in barrels of 170 Kg.

STORAGE

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

REMARKS

- In case of extremely rough and sharp cement or asphalt surfaces it is recommended grinding of the surface with a mosaic machine before the application of **ELASTOSPORT COLORED 853-R**.
- Application and drying of **ELASTOSPORT COLORED 853-R** must take place during cool hours. During temperatures over 38°C ideal time for the application of the material is between 22:00-9:00 a.m. while 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.
- Coating thickness more than 0.5 mm is achieved only by repeated layers.
- For covering cracks, or holes it is recommended the addition of 70% quartz sand to **ELASTOSPORT COLORED 853-R** weight (grain thickness from 0.2-0.5mm) in the first

layer.

- 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.

For more information consult the material safety data sheet.

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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

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/m² 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°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°C and high temperature 40°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.

For more information consult the material safety data sheet.

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