

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/lt 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.

APPLICATION TOOLS

Roller, squeegee, brush or airless sprayer.



PACKAGING

Supplied in barrels of 200kg and drums of 20kg.



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** should be covered with **ELASTOTURF TOP** or **ELASTOTURF 851**.
- Mixing ratio in weight 50% **ELASTOSPORT COLORED 853-R** and 50% silica sand plus up to 10% 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:	24.000-34.000 mPa•s at 25°C
Density:	1.32-1.42 kg/lt
Temperature for the application and drying of the material:	10 – 40°C after 1 day at 25°C
Walkability:	

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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 R LIQUID 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 up to 10% 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 (width 55cm). Tools should be cleaned with **WATER** immediately after use.



PACKAGING

Supplied in barrels of 200Kg, 160Kg, 20kg drums



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 40°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 safety data sheet.

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QUARTZ SAND

GENERAL CHARACTERISTICS

After mining, the silica sand is industrially processed by sieving, washing and classifying. The silica sand is an excellent raw material for coatings with anti-slip properties to be mixed with acrylic or epoxy resins, for sports flooring systems or industrial systems, also used as infill for artificial grass in granulometry 0.3-0.5mm.

TECHNICAL DATA

		K31	K32	K34		Method
D50		370	265	170	%	ISO 933-01
AFS		44	52	80		
>1000µm		1			%	
>710µm		5			%	
>500µm		25	0,4		%	
>355µm		50	8	0,3	%	
>250µm		85	55	3	%	
>180µm		98	92	20	%	
>125µm				90	%	
<63µm		0,01	0,01	0,2	%	
Density		2,65	2,65	2,65	g/cm3	Pycnometer
Bulk Density		1,5	1,4	1,3	g/cm3	Scott Volumeter
Hardness		7	7	7		Mohs'scale
pH		7	7	7		ISO787/9
Loss on ignition		0,15	0,15	0,15	%	1100°C, 1 hour
Colour	L*	72	73	72		Minolta CM-3610d D65/10°
	a*	1,9	1,8	1,7		
	b*	7,5	7,5	7,1		

CHEMICAL ANALYSIS

	K31	K32	K34		
SiO ₂	99,5	99,5	99	%	XRF
Fe ₂ O ₃	0,04	0,03	0,07	%	XRF
Al ₂ O ₃	0,2	0,2	0,6	%	XRF
TiO ₂	0,03	0,03	0,06	%	XRF
K ₂ O	0,03	0,05	0,3	%	XRF
CaO	0,01	0,01	0,02	%	XRF

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ELASTOTURF TOP

ACRYLIC, SPECIAL, COATING FOR EXTERNAL SPORT FIELDS

GENERAL CHARACTERISTICS

ELASTOTURF TOP is acrylic-based, colored coating for external sport fields.

- Applied on asphalt and cement waterproofed surfaces without rising humidity issues following the application **ELASTOSPORT 853 COLORED** or **ELASTOSPORT 853 COLORED-R**.
- Ideal for basketball, volleyball, handball, football and tennis external courts. Suitable for sports centers, schools, fitness centers, pavements.
- Applied easily, having 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 818** in any desirable color.

TECHNICAL DATA

Basis:	one-component acrylic resin
Appearance:	viscous liquid
Colors:	24 colors according to our colorchart
Viscosity:	
Density:	20.000 – 33.000 mPa•s at 25°C
Temperature for the application and drying of the material:	1.60 – 1.70 Kg/Lt
Walkability:	10 – 40°C
Total Hardening:	after 24 hours at 25°C
	5 days at 25°C

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 with bonding resin primer **RITIVEX R LIQUID 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: 200 - 400

gr/m², depending on the absorption of the underlay.

- When the primer begins to dry (approximately 1 hour depending on the ambient temperature), follows the application of **ELASTOSPORT 853 COLORED** or **ELASTOSPORT 853 COLORED-R** for sealing the pores of underlay.
- As soon as **ELASTOSPORT 853 COLORED** or **ELASTOSPORT 853 COLORED-R**, dries (5-6 hours at 25°C), follows the application of **ELASTOTURF TOP** by squeegee in a thin film.
- Depending on the ambient temperature **ELASTOTURF TOP** is diluted with up to 10% water, prior to application, in order to achieve better fluidity. It is applied in two or three coatings depending on the desirable thickness. The next layer follows the other after the previous starts to dry.

CONSUMPTION

0.3 – 0.35 kg/m² per layer, recommended in 1 or more layers.

APPLICATION TOOLS

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



PACKAGING

250kg barrels, 200kg barrels, 20kg drums



STORAGE

Maximum 12 months in unopened containers in dry places with minimum temperature 5°C and maximum 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, sandblast or rotor machine before the application of **ELASTOSPORT 853 COLORED** or **ELASTOSPORT 853 COLORED-R**.
- During summer or hot climates, ideal time for the application of **ELASTOTURF TOP** is between 22:00-9:00 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 48 hours.
- In case it gets damaged, it is simply repaired and recoated on the spot.

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