EDITION: SEPTEMBER 2023

# POLYSPORT DAMP PROOF BARRIER

TWO COMPONENT, SOLVENT-FREE PU-BASED PRIMER, USED AS WATER-BARRIER ON DAMP CONCRETE SUBSTRATES AND AS AN ADHESIVE COMPONENT BETWEEN CONCRETE AND SUBSEQUENT COATINGS

## GENERAL CHARACTERISTICS

**POLYSPORT DAMP PROOF BARRIER** is a clear, PU-based, solvent-free, two-component, resin. It is used as water barrier on damp concrete substrates and as an adhesive component between concrete surfaces and sport coatings or industrial final coatings, such as running tracks, acrylic coatings, polyurethane coatings and epoxy industrial coatings.

## TECHNICAL DATA

| | |
|---|---|
| Basis: | two-component PU-resin |
| Appearance: | liquid |
| Colors: | light brown |
| Viscosity (A+B): | 200-700 mPa.s |
| Density (A+B): | 1.08-1,18 kg/lt |
| Mixing proportion (A:B): | 50:50 by weight |
| Application time: | 20 – 25 min at 25$^{o}$C |
| Temperature for the application and drying of the material: | 12 – 35$^{o}$C |
| Final strength: | after 7 days at 25$^{o}$C |
| Walkability: | after 24 hours at 25$^{0}$C |
| Adhesive strength: | 3,70 $\pm$ 0,05 N/mm$^2$ (breaking of concrete) |

## SUBSTRATE REQUIREMENTS

| | |
|---|---|
| Concrete quality: | at least C20/25 |
| Age: | at least 28 days |

## PREPARATION - APPLICATION

Applied only on dry or damp surfaces or on surfaces with rising humidity. The humidity of the substrate should not exceed 4%. Surface should be 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.

- Treatment of the surface with a mosaic machine, or with sandblast or milling machine, depending on the condition of the substrate and the thickness of the final coating.

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- Good, dry cleaning of the surface from dust and residues with vacuum cleaner and use of squeegees.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed 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.
- Following, the **POLYSPORT DAMP PROOF BARRIER** is applied in two or more layers until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary. The next layer follows the other as soon as the previous has dried. The number of layers varies from one surface to another depending on the absorbency.

**CONSUMPTION**

350-500 gr/m$^2$ in two layers depending on the type and the absorbency of the underlay.

**APPLICATION TOOLS**

Short-haired mohair roller, brush, squeegee for smooth industrial surfaces. Tools should be cleaned with solvent (xylene, toluene) immediately after use.

**PACKAGING**

Supplied in packages of 30kg (two drums).
Components A and B have the fixed weight proportion.

**STORAGE**

12 months in unopened containers in dry places with minimum temperature 5$^o$C and maximum temperature 30$^o$C (avoid sunlight).

**REMARKS**

- Working time of **POLYSPORT DAMP PROOF BARRIER** decreases when ambient temperature and humidity rises.
- It cannot be applied in thickness for closing cracks or holes. In this case it can only be used if mixed with fine dry sand.
- The usage of mosaic/milling/sanding machine or similar must precede the application of **POLYSPORT DAMP PROOF BARRIER** for the creation of pores and

the right penetration of the material.

- In case old floors are going to be laid or a long period of time interferes between successive layers (twenty four hours during winter and twelve hours during summer), the surface must be thoroughly cleaned and ground prior to application of a new layer.
- After hardening, **POLYSPORT DAMP PROOF BARRIER** 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 material safety data sheet.**



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Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

EDITION: JULY 2022

# DECOPOOL PU PRIMER 1870

TRANSPARENT, TWO-COMPONENT, POLYURETHANE-BASED PRIMER

## GENERAL CHARACTERISTICS

**DECOPOOL PU PRIMER 1870** is a clear, polyurethane-based, two-component primer, which is used as an adhesive component between the sub-floor and water park, splash park, swimming pool area systems.

- ✓ Penetrates in depth.
- ✓ Ideal for old and new surfaces.

## TECHNICAL DATA

| | |
|---|---|
| Basis: | two-component polyurethane resin |
| Ratio: | 72:28 by weight |
| Appearance: | liquid |
| Color: | transparent |
| Viscosity: | 100 – 500 mPa•s at 25°C |
| Density: | 0.90 - 1.00 Kg/Lt |
| Temperature for the application and drying of the material: | 10 – 40°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.
- Priming of the surface with **DECOPOOL PU PRIMER 1870** applied by airless sprayer equipment or brush or roller. The base layer (wet-pour mixture of **EPDM 856** and **PU BINDER 1125AL**) should be constructed while **DECOPOOL PU PRIMER 1870** is still a bit sticky. Curing takes place at ambient temperature by evaporation of the solvent and reaction with atmospheric moisture. High temperatures and moisture will shorten the curing time. **PU DECOPOOL PU PRIMER 1870** is applied after the **DAMP PROOF BARRIER** has dried, as a thin film, and the wet-pour mixture of **EPDM 856** and **PU BINDER 1125AL** should be applied on the still sticky surface (wet on wet).
- The temperature should not fall below 10° C during curing.
- Opened drums should be used up quickly.
- **NOTE: Rain will cause the primer to lose its function! If the primer was affected by rain, the base layer should not be constructed! Instead, the sub floor has to dry and the primer application has to be repeated.**

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**CONSUMPTION**

200-300 gr/m$^2$ depending on the type and the absorbency of the underlay.

**APPLICATION TOOLS**

Brush, roller or airless sprayer. Tools should be cleaned with a PU solvent immediately after use.



**PACKAGING**

Drums / Barrels.


**STORAGE**

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

**REMARKS**

- Working time of **DECOPOOL PU PRIMER 1870** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **DECOPOOL PU PRIMER 1870** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.

**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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EDITION: DECEMBER 2022

# PU BINDER 1125-AL

POLYURETHANE, 2-COMPONENT, ALIPHATIC BINDER

## GENERAL CHARACTERISTICS

**PU BINDER 1125–AL** is a 2-component aliphatic binder with low viscosity. It exhibits excellent adhesion to all rubber granules, combines and bonds SBR or EPDM rubber granules, polyurethane granules and sponge particles, and gives a strong performance both in terms of tensile strength and durability.

It is mixed with **RECYCLED RUBBER 858** or **EPDM granules** for the creation of the elastic safety flooring **SAFEPOL MULTICOLOR** or other flexible rubber flooring, ideal for playgrounds, athletic tracks, schools etc.

## TECHNICAL DATA

| | |
|---|---|
| Mixing Ratio | 79% : 21% (By weight) |
| Density (25°C) | 0,97-1,07 Kg/lt |
| Viscosity (25°C) | 500-1500 mPas |
| Pot-life (25°C) | 30-45 min. |
| Curing (25°C and %60 relative humidity) | After 24 hours it cures. |
| Color | Transparent |

## PREPARATION-APPLICATION

Can be used for kids playground, running tracks, sports grounds, walkways and offices.

**Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles 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.

Always perform **good mixing of components A & B of PU BINDER 1125-AL**(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 B-component into A-component.

Procedure:

- **Good, dry** cleaning of the surface from dust and residues.
- The application procedure for **SAFEPOL MULTICOLOR (PU BINDER 1125-AL** and **EPDM 856** mixture) on top of asphalt or waterproof concrete directly is the same as for **SAFEPOL** (the mixture of **PU BINDER 1125-AL**and **RECYCLED RUBBER)**.
- Good mixing of the **PU BINDER 1125-AL** and **EPDM 856** and application of the mixture using paving machine or by hand if the applicator is experienced, with rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting (cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface).

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## RATIO MIXTURE

16% **PU BINDER 1125-AL** and 84% **RECYCLED RUBBER 858, for sports flooring.**

## APPLICATION TOOLS

For the mixture **PU BINDER 1125-AL** and **RECYCLED RUBBER 858** or: paver machine or rake, straightedge, flat metal trowel, cylinder weighing 8-15kg.

## PACKAGING

Set of 15 Kg - Drums.

## STORAGE

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

## REMARKS

- Concrete humidity should not be above 4%, ambient humidity should be at least 40% and most 80%.To begin the application, must wait for the appropriate humidity.
- Working time of **PU BINDER 1125-AL**decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **PU BINDER 1125-AL** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.

## 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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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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EDITION: APRIL 2023

# EPDM 856

## (Ethylene Propylene Diene Monomer Rubber)

RUBBER GRANULES

**GENERAL CHARACTERISTICS**

Type of material: Rubber EPDM

Grain size: 0.5-1.5mm,1-3.5mm,1-4mm, EPDM dust

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**PERFORMANCE OF SAMPLE WITH 22% EPDM CONTENT**

| Test item | Performance | Standard |
|---|---|---|
| Tensile strength ($N/mm^2$) | >1 | ASTM D412-6 |
| Elongation at break (%) | >800 | ASTM D412-6 |
| Hardness (shore A) | 65 | ASTM D2240-15 |
| Specific gravity ($kg/m^3$) | 1.51 ± 0.05 | ASTM D792-20 |

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**PREPARATION-APPLICATION**

**EPDM 856** granules are basically used for wet pour colored playground floorings (granulometry 1-3.5mm or 1-4mm or 0.5-1.5mm), for flexible multipurpose outdoor courts in 10-20 mm, **SYSTEM COLORFLEX,** and in applications of running track system such as **POLTRACK SANDWICH SYSTEM** (granulometry 1-3.5mm broadcasted) and **POLTRACK SPRAYCOAT SYSTEM** (granulometry 0.5-1.5 mm as spray system mixed with PU resin P12).

Can be used also as infill of artificial synthetic turf or in the production of EPDM rubber tiles or EPDM rubber rolls or loose lay as EPDM Mulch.

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**REMARKS**

- It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance topcoat **POLYSPORT XP 1069**, which gives a strong UV protection and doesn't allow the change of color to occur. **POLYSPORT XP 1069** is produced in all EPDM color range and needs to be applied with 0,4 kg/m2 in two crossing layers by airless sprayer or rollers over EPDM surfaces with PU binder.

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- In case of sprayed coated running track system, it is suggested the usage of POLYSPORT 1052 UV resistant coating where the color shade is green or blue or any other except red color which doesn't need any protection.
- Same can be applied for long term color stability also for the POLTRACK SANDWICH SYSTEM over broadcasted EPDM granules.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc. will alter.
- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the correct type of PU-binder (normal aromatic binder or aliphatic 2-component binder) according to the type and color of the EPDM rubber granules.

## CERTIFICATES AND TEST REPORTS

Ask for our certificates and test reports for EPDM as:

- pAH and Elements acc. to EN 71-3
- UV resistance test (FIFA Test Method 10)
- SRI (Solar Reflectance Index)
- Weathering Resistance
- Water Resistance
- Dimensional Stability
- Temperature Resistance

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EDITION: DECEMBER 2022

# POLYSPORT STUCCO 8050

SPECIALLY MODIFIED, POLYMERIC, TWO-COMPONENT PORE FILLER

## GENERAL CHARACTERISTICS

**POLYSPORT STUCCO 8050** is elastic solvent-free, two component polymeric sealant for AQUASOFT-EX WET-POUR system and for outdoor sport surfaces in general.

**POLYSPORT STUCCO 8050** 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 | 86,2 : 13,8 (By weight) |
| Density of mixture (25°C) | 1.30-1.40 Kg/lt |
| Viscosity of mixture (25°C) | 8.000-20.000 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.

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**CONSUMPTION** 0.8 - 2.5 kg/m², depending on the porosity of the subfloor.

**APPLICATION TOOLS** Flat metal trowel.

**PACKAGING** Set of 250 kg (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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EDITION: JULY 2022

# AQUASOFT 8055 COLORED

SPECIALLY MODIFIED, TWO-COMPONENT, SELF-LEVELING COATING FOR KDF AQUASOFT-EX SYSTEM

## GENERAL CHARACTERISTICS

**AQUASOFT 8055** is a specially, modified, pigmented and solvent free, two component, polymeric self-leveling coating, with good elastic and tensile properties.

**AQUASOFT 8055** is easy to apply, it shows a good curing behavior even at low or high temperature.

## TECHNICAL DATA

| | |
|---|---|
| Mixing ratio: | 72.7 : 27.3 (By weight) |
| Viscosity (25°C) : | 3.500 – 8.000 mPa•s |
| Density of mixture (25°C): | App. 1.35 – 1.45 Kg / Lt |
| Curing (25°C and 60% relative humidity): | After 24 hours |
| Pot life(25°C): | 20-30 min. |
| Application temperature: | 10 – 40 ºC |
| Color: | KDF AQUASOFT colorchart |

## PREPARATION-APPLICATION

**AQUASOFT SYSTEM is 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.
- Processing temperature of both components should be between 10-40°C.
- AQUASOFT 8055 is applied on top of DAMP PROOF BARRIER, after it has dried. The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring the hardener (B component) 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 well mixed material is applied with a V-notch trowel 5.5 mm and the parallel use of a spiked roller. Then, while the material is still “fresh” broadcasting of the ELASTIC ELEMENTS occurs. After ~24 hours, any excess of ELASTIC ELEMENTS is removed from the surface. This procedure is performed in 2 layers (2 layers of resin – 2 layers of broadcasting rubber elements).
- Material consumption lies between 2,0-2,3 Kg/m$^2$ for **AQUASOFT-EX** system and it

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depends on the temperature of substrate, ambience and material. Substrate temperatures must not exceed 50°C as this would liquefy the material.

- During the first hours after application, the coating has to be protected from direct contact with water, as this could cause foaming of the material. In case of (expected) rain, **AQUASOFT 8055** should not be applied.
- NOTE: In cases re-coating is required, proceed in the first 24 hours after previous application without the use of primer if the surface is dry and clean.

## CONSUMPTION

2,0-2,3 kg/m².

## APPLICATION TOOLS

V-notch trowel, 5.5 mm & spiked roller.


V-notch trowel


spiked roller

## PACKAGING

Supplied in barrels and drums(set).


## STORAGE

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

## 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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# ELASTIC ELEMENTS

RUBBER GRANULES

## GENERAL CHARACTERISTICS

Type of material: high content rubber

Grain size: 0.2-0.5mm

## PERFORMANCE OF SAMPLE 25%

| Test item | Performance |
|---|---|
| Tensile strength (Mpa) | >4.5 |
| Elongation at break (%) | >700 |
| Hardness (shore A) | 58 |
| Specific gravity (kg/cm³) | 1.45 ± 0.05 |

## PREPARATION-APPLICATION

Application: water parks, splash parks, swimming pool areas.

## REMARKS

- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.



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EDITION: DECEMBER 2023

# AQUASOFT 8052 COLORED

UV-RESISTANT, POLYMER-BASED, TWO-COMPONENT, GLOSSY FINISH, ALIPHATIC COATING

## GENERAL CHARACTERISTICS

**AQUASOFT 8052 COLORED** is a polymeric, two-component, solvent-based, with glossy finish aliphatic coating for outdoor sports surfaces.

- It is applied as a final, sealing layer on top of splash park floorings.

- It is UV-resistant and thus absolutely suitable for outdoor surfaces, for UV-protection in case of sensitive, light colors such as blue, orange, green.

## TECHNICAL DATA

| | |
|---|---|
| Mixing ratio: | 75:25 (By weight) |
| Viscosity (25°C): | 800 – 2.500 mPa•s |
| Density (25°C): | 0.90 – 1.00 Kg / Lt at |
| Curing (25°C): | 9-12 hours |
| Application temperature: | 15 – 40 °C |
| Color: | KDF AQUASOFT colorchart |

## PREPARATION-APPLICATION

**AQUASOFT SYSTEM is 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 15°C during application and curing of the materials while relative humidity does not exceed 75%.

• The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring, the hardener (B component) should be added. Continue stirring until a homogeneous mix is obtained.

• After the last layer of AQUASOFT 8055 with the ELASTIC ELEMENTS has dried (after ~24 hours), remove any excess ELASTIC ELEMENTS from the surface. The application of

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AQUASOFT 8052 is done on top, by airless sprayer or short-haired mohair roller in 3 crossing layers.

**CONSUMPTION**

600-650 gr/m²

Apply three layers at least.

**APPLICATION TOOLS**

Airless sprayer or short-haired mohair roller. 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**

• Working time of **AQUASOFT 8052 COLORED** decreases when ambient temperature rises.

• Prolonged storage of partially used containers, containing **AQUASOFT 8052 COLORED** must be avoided, as contact with atmospheric moisture could possibly cause clouding of the product.

• After hardening **AQUASOFT 8052 COLORED** 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.

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KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

**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.

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