

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/l
Mixing proportion (A:B):	50:50 by weight
Application time:	20 – 25 min at 25°C
Temperature for the application and drying of the material:	12 – 35°C
Final strength:	after 7 days at 25°C
Walkability:	after 24 hours at 25°C
Adhesive strength:	3,70 ± 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. There should be no standing water or visible humidity over the surface or on the surface before the application. 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.
- 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.
- Before the last layer of **POLYSPORT DAMP PROOF BARRIER** dries, silica sand is spread in generous amount and evenly. After curing (24 hours) the excess sand is removed and the preparation of the concrete has been completed. The substrate is ready for the application of the rest of the system.

CONSUMPTION

350-500 gr/m² in two layers or more 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 40kg (two drums). Components A and B have the fixed weight proportion.



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 **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.

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.

KDF - Kataskeves Dapedon LTD
e : exports@kdf.gr w : www.kdf.gr

Headquarters/Showroom Office
19th km National Road Thessaloniki-Moudania
57001, Neo Rysio, Thessaloniki, Greece
t / f : +30 2310 829598



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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PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT BETWEEN SUBFLOOR AND SPORTS SYSTEMS

GENERAL CHARACTERISTICS

POLYURETHANE PRIMER 870 is a clear, polyurethane-based, one-component primer, which is used as an adhesive component between the sub-floor and sport systems.

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

TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity:	300 – 800 mPa•s at 25°C
Density:	0.95- 1.05 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 **PU PRIMER 870** applied by airless sprayer equipment or brush or roller. The base layer (wet-pour mixture of SBR and **PU BINDER 1118**) should be constructed while **PU PRIMER 870** 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 PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, the wet-pour mixture of SBR and **PU BINDER 1118** can be applied on the still sticky surface.
- The temperature should not fall below 10° C during curing.
- Opened drums should be used up quickly.
- The layer (wet-pour mixture of SBR and **PU BINDER 1118**) should be constructed while the final layer of **PU PRIMER 870** is still sticky.
- **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.

CONSUMPTION

200-300 gr/m² 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

200kg barrels, 20 kg 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.

REMARKS

- Working time of **POLYURETHANE PRIMER 870** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYURETHANE PRIMER 870** 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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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 °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 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 25°C. 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/m² for **AQUASOFT-EX** system and it

KDF - Kataskeves Dapedon LTD
e : exports@kdf.gr w : www.kdf.gr

Headquarters/Showroom Office
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t / f : +30 2310 829598



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.



PACKAGING

Supplied in set of 23 Kg (two drums).



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/cm ³)	1.45 ± 0.05

PREPARATION- APPLICATION

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

PACKAGING

Bags of 20kg

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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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



Sports Flooring Systems & Building Materials

50 YEARS OF EXPERIENCE

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