KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

EDITION: MAY 2019

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:	50 – 250 mPa•s at 25^{o}C
Density:	0.9- 1.0 Kg/Lt
Temperature for the application and drying of the material:	10 – 40^{o}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, 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 cure time. **PU PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, wet-pour mixture of SBR and PU BINDER 1118 can be applied on sticky surface.
- The temperature should not fall below 10^{o} 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.**

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CONSUMPTION	200-300 gr/m^2 depending on the type and the absorbency of the underlay.
APPLICATION TOOLS	Brush and 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 **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.**

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: SEPTEMBER 2013

PU BINDER 1120

Pigmented MDI based Prepolymer

GENERAL CHARACTERISTICS

PU BINDER 1120 is an one component, aromatic polyisocyanate-prepolymer binder based on diphenylmethane diisocyanate.

Is used as a binder in manufacturing rubber granule mats, rubber molds and corks.

- Moisture curing
- low viscosity
- solvent free
- pigmented
- clean environment, free from pigment dust
- less labor cost, inventory cost
- permanent elasticity

PU BINDER 1120 combines and bonds Recycled Rubber granules, polyurethane granules and sponge particles.

TECHNICAL DATA

Viscosity(25°C):	8000±1000 mPas
Density (20°C):	1,30±0.1 gr/ cm^3
Isocyanate NCO value %	7,80±1
Colour:	Red, green

PREPARATION-APPLICATION

Children playground, indoor and outdoor sports grounds and offices.

On-site applications:

PU BINDER 1148 mixed with SBR granulometries and applied to entire sport/playground field with the help of special machines (paving machine) to have desired thickness. After this layer cured, the necessary controls need to be done.

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Molded in production:

Rubber granules are highly dispersed with binder and taken into molds. Then pressure is applied. Prior experiences show that pressure with 160 bar and mold temperature of 130 °C gives reasonable results in 12 - 15 minutes and demolded easily. The curing time can be shortened by addition of a catalyst. In molding applications, binder consumption should not be below 7%-9% of SBR rubber granules.

PACKAGING

220 kg in barrel

STORAGE

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

REMARKS

The rubber granules must be dry, as moisture will accelerate the curing of the binder making installation more difficult or even impossible and may result in the binder foaming, leading to an uneven surface and a weak rubber tile. Surface must be sound, smooth, dry and free from oil, dirt, rust, chemicals and burr. Do not add different material to binder. Working time is influenced by the ambient, material and substrate temperature, as well as by humidity.

CAUTION

Avoid skin contact with the uncured product. If swallowed, consult a physician, he may decide to wash the stomach. Safety glasses and gloves are recommended. **PU BINDER 1120** is nonhazardous in its cured form.

For more information consult the material safety data sheet.

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SBR RUBBER GRANULES 858

GENERAL CHARACTERISTICS

It can be used in sports facilities as infill in synthetic grass with the parallel use of round sand and also as one of the components in case of cast applied wet-pour systems for playground floorings or as shock-pad for sport subfloors in athletic tracks and sports fields.

Rubber granule is derived from car and truck tires. During processing, the tires are mechanically granulated, removing all metal and synthetic fibers, as well as any other foreign part contained in there with specially designed sieves, so as to produce a 99.99% clear rubber with high quality.

PROPERTIES

- 100% recyclable
- Long life
- Resistance to adverse weather conditions
- High shock absorbency and vibration damping
- High abrasion resistance

PREPARATION-APPLICATION

In sports facilities and playgrounds to ensure flexibility of surface and vibration absorption.

TECHNICAL CHARACTERISTICS

Granulometry 1-3mm

DENSITY:	0.48kg/cm³
SPECIFIC GRAVITY	1.20+/-.05 (Water = 1.0)
HARDNESS	60
HUMIDITY(%)	<0.65
ELASTICITY	100% - No change
RESISTANCE	113N/cm - Excellent

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PACKAGING

Packaging is available in big-bags -1 ton in following sizes:

Grain size	0,5-1,5 mm
Grain size	0,5-2,5 mm
Grain size	0.5-4.0 mm
Grain size	2-8 mm
Grain size	8-20 mm
Grain size	80-50 mm
Grain size	80-120 mm

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POLYSPORT XP 1069

UV resistant, two component coating for the protection of EPDM surface

GENERAL CHARACTERISTICS

POLYSPORT XP 1069 is a two-component, mat finish coating created for the UV protection of playground floorings, made from EPDM or TPV granules (wet pour floorings) or rubber tiles.

It is applied as a final, protective layer on top of playground floorings made from **EPDM granules** plus **PU binder** or also on recycled rubber tiles or EPDM tiles to maintain their colour.

- It doesn't change the EPDM structure or alter its appearance if applied properly by airless sprayer or properly even by simple rollers.
- It is UV-resistant and thus absolutely suitable for outdoor playground rubber surfaces.
- Ideal for renewing and refreshing old EPDM or rubber surfaces.

TECHNICAL DATA

Mixing Ratio	90:10 by weight
Density (25°C)	1.38-1.48Kg/lt
Viscosity	4.000-7.500 mPa•s at 25°C
Application Temperature	Min 10 - 40°C
Curing	3-4 hour at 25°C
Color	KDF's EPDM colorchart

PREPARATION-APPLICATION

- 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 10°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 of the B component should be added. Continue stirring until a homogeneous mix is obtained. Must be diluted with 15-20% water after mixing the A & B component prior application.
- Airless sprayer (ideal tool for the application) or shorthaired roller can apply **POLYSPORT XP 1069**.

CONSUMPTION

0.3 -0.4 kg per square meter, depending on the EPDM structure, in 2 layers.

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PACKAGING

20Kg(set) - 18Kg A comp., 2Kg B comp.

STORAGE

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

REMARKS

- Working time of **POLYSPORT XP 1069** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYSPORT XP 1069** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- After hardening **POLYSPORT XP 1069** 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 safety data sheet.

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