

POLYSPORT PU 1051

POLYURETHANE, SELF-LEVELING, TWO-COMPONENT COATING

GENERAL CHARACTERISTICS

POLYSPORT PU 1051 is a solvent-free, polyurethane-based, two-component, self-leveling coating for outdoor sport surfaces.

POLYSPORT PU 1051 has excellent mechanical properties; like high impact.

It is applied on prefabricated subfloors of sports flooring such as **ISOPOL 854**, shock-pad in rolls, or wet-pour rubber cushion mix of SBR rubber granules and **PU BINDER 1118** after they are sealed with elastic pore sealer **POLYSPORT STUCCO 1050**. Combines finally polyurethane finish paint **POLYSPORT 1052** for the creation of a multilayer polyurethane floor especially designed for sport halls such as tennis, basketball, handball, volleyball and multipurpose halls.

- Applies easily with trowel, providing excellent self-leveling properties.
- Highly flexible and elastic contributing in the athletic performance of the flooring.
- Non shrinking.

TECHNICAL DATA

Mixing Ratio (By weight)	86,95 : 13,05 By weight
Density (25°C) mixture	1.40 – 1.50 Kg/Lt
Viscosity(25°C)	3.500 – 8.000 mPa•s at 25°C
Pot-life (25°C)	20 - 30 min at 25° C
Hardness (Shore A)	80
Application temperature	10 – 40 °C
Curing (25°C and %60 relative humidity)	After 24 hours
Color	KDF's Color chart

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.
- 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%.

- Depending on the ambient temperature, follows application of **POLYSPORT PU 1051**. Components A & B (hardener) packed into separate containers in fixed weight proportions are mixed together 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. The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container 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 polyurethane mixture is poured on the floor and spread using V - notched trowel 5.5 mm, with parallel use of special spiked-roller in order to release any possibly entrapped air and avoid the formation of bubbles.
- The next day, depending ambient temperature follows application of finishing paint **POLYSPORT 1052** in two layers.

CONSUMPTION

2.0 - 2.2 Kg/m² for 1 layer

APPLICATION TOOLS

V - Notched trowel 5.5 mm, spiked-roller. Tools should be cleaned with **PU SOLVENT** immediately after use.



PACKAGING

280 kg - set of barrel and 2 drums, 32kg – set of drums



STORAGE

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

REMARKS

- Substrate must be dry, clean, free from dust, grease and oil. Application must be done between 10°C and 40°C.
- In case the layer of PU self-leveling is applied after more than 24 hours of the

application of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU self-leveling can be applied.

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.