

POLYSPORT PU 1051

GENERAL CHARACTERISTICS

POLYSPORT PU 1051 is a self-leveling, solvent-free two-component polyurethane based coating. Curing mechanism is based on reaction (cross linking) of the two components.

POLYSPORT PU 1051 has excellent mechanical properties; like high impact and abrasion strength and resistance to acidic, basic solutions and most of the chemicals. According to DIN 4102 standard, its flammability degree is B2; normal combustibility. But with suitable agents **POLYSPORT PU 1051** can be prepared as a flame resistant product which has a flammability degree of B1; difficult to ignite (no drop, no smoke).

TECHNICAL DATA

Mixing Ratio (By weight)	6 : 1
Mixing Ratio (By volume)	4 : 1
Density (20°C) mixture	app. 1,70±0.1 gr/cm ³
Density (20°C) Comp. A	app. 1,80±0.1 gr/cm ³
Density (20°C) Comp. B	app. 1,22±0.05 gr/cm ³
Pot-life (23°C)	40 min.
Hardness (Shore A)	70
Application temperature	Min 5°C
Curing (20°C and %60 relative humidity)	After 6 hours you can apply second coat. After 12 hours you can walk. After 7 days it resists against mechanical load and chemical substances.
Color	Colors in Ral catalog

PREPARATION-APPLICATION

- **POLYSPORT PU 1051** provides permanent adhesion to concrete, cementitious systems, timber, granolithic screeds, masonry paving, and mild steel. You may use it in industrial, sport floor coating and also for isolation at terrace, roof, inner-outer wallboards, soil, concrete, under asphalt. You can use it for all sorts of water isolation.
- 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 30-40 minutes of mixing at 20°C. **POLYSPORT PU 1051** can be applied by roller and trowel.

CONSUMPTION

1.70 kg is used per m² for 1mm. Thickness depends on the surface absorbance.

PACKAGING

21 kg. Pail (A+B).

STORAGE

1 year under room conditions.

REMARKS

Substrate must be dry, clean, free from dust, grease and oil. Application must be done between 5°C and 30 °C.

CAUTION

Harmful if swallowed. Seek immediately medical attention. Rubber gloves and safety glasses with side guards should be worn.

For more information consult the material safety data sheet.

CHEMICAL RESISTANCE

PHOSPHORIC ACID	%50	1
NITRIC ACID	%5	1
HYDROCHLORIC ACID	%10	1
SULPHURIC ACID	%50	1
PHORMIC ACID	%10	1
ACETIC ACID	%10	1
AMMONIAC	%5	1
BORIC ACID	%4	1
ALCOHOLS	%10	1
LACTIC ACID	%25	2
SITRIC ACID	%10	1
GLYCERINE		3
DISINFECTANT		1

FUEL- DIESEL - GASOLINE		1
POTASSIUM HYDROXIDE	%10	1
AMMONIUM HYDROXIDE	%5	1
COSTIC SODA	%50	1
CHLORINE WATER	%6	1
BUTYL ACETATE		2
TOLUENE		2
XYLENE		1
ACETONE		3
TRICHLORO ETHYLENE		3
CCI4		2
PER CHLORO ETHYLENE		2
FORMALDEHYDE	%37	2
DISTILLED WATER		1

NOTE : TESTED IN 20 °C DURING 4 MONTH. COLOR DISRUPTIONS ARE OMITTED.

1: RESISTANT 2: PARTIALLY RESISTANT 3: NOT RESISTANT

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.