

PU BINDER 1178

SPECIAL POLYURETHANE BINDER

GENERAL CHARACTERISTICS

100% solids, aromatic polyisocyanate-prepolymer moisture-curing binder based on diphenylmethane diisocyanate. It is MDI based and solvent free. It exhibits excellent adhesion to all rubber granules and gives a strong performance both in terms of tensile strength and durability.

It is mixed with **RECYCLED RUBBER 858**, **SBR granules**, for the creation of the innovative, elastic, safety playground flooring **SAFEPOL SANDPROOF SYSTEM** or other flexible rubber floorings, ideal for playgrounds, schools etc.

PU BINDER 1178 cured with the air humidity, has low viscosity and is solvent free. **PU BINDER 1178** combines and bonds SBR or EPDM rubber granules, RIM components, polyurethane granules and sponge particles. Also it can be used as lining for insulation and for pasting.

TECHNICAL DATA

Density (25°C)	1,05-1,15 kg/lt
Viscosity (25°C)	4500-10000 mPas
Color	Clear, pale yellow

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION- APPLICATION

On-site applications: 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.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of **PU BINDER 1178** and **SBR granules** in order to ensure proper adhesion.

- Good mixing of the **PU BINDER 1178** and the **RECYCLED RUBBER 858** in **granulometry of 2-4mm or 2-5mm**. 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 homogeneity.
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or it can be done manually 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). Consumption: 7kg/m²/cm.
- Good mixing of the **PU BINDER 1178** and the **RECYCLED RUBBER 858** in **granulometry of 0.5-2mm**. 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 homogeneity.
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or it can be done manually 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). Consumption: 7,2kg/m²/cm.
- Follows the application of **KDF-PU 1055** a special waterproof and sandproof, polyurethane pore filler for sealing the pores of the mixture.
- Then follows the application of **POLYSPORT PU 1051** a polyurethane self-leveling before the application of the final top coating.
- And finally a top coat is applied, **KDF-PU 1056**, polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.

APPLICATION TOOLS

For the mixture **PU BINDER 1118** and **RECYCLED RUBBER 858** or: paver machine or rake, straightedge, flat metal trowel, cylinder weighing 8-15kg



PACKAGING

215kg in barrels.

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STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture and heat.

REMARKS

The floor must be smooth, dry and clean. Must be removed from oil, dirt, rust and burr. Do not add any foreign material. 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 1178** decreases when ambient temperature rises.

Prolonged storage of partially used containers containing **PU BINDER 1178** 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 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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