

EDITION: MAY 2019

PU BINDER 1118

POLYURETHANE BINDER

GENERAL CHARACTERISTICS

polyisocyanate-prepolymer, moisture-curing binder based on 100% solids, aromatic, diphenylmethane diisocyanate. It is MDI based and solvent free and has low viscosity. 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 or EPDM granules for the creation of the elastic safety flooring SAFEPOL MULTICOLOR or other flexible rubber floorings, ideal for playgrounds, athletic tracks, schools etc. Combines and bonds RIM components, polyurethane granules and sponge particles. Also it can be used as lining for insulation and for pasting.

TECHNICAL DATA

Density of mixture (25°C)

app. 1.08 - 1.18 Kg/Lt

Viscosity (25°C)

4.000 - 8.000 mPa.s

Pot-life (25°C)

30-75 min.

Application temperature

Min 10°C

Curing (25°C and %60 relative humidity)

After 24 hours it cures.

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.

Can be used for kids playground, running tracks, sports grounds, walkways and offices.

Moulded in production: Rubber granules and binder are thoroughly mixed, taken into moulds, and then pressure is applied. 160 bar pressure, mold temperature of 130 degree gives reasonable results in 12 - 15 minutes. In molding applications, binder content should not fall below 5%.

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.
- Good mixing of the PU BINDER 1118 and the RECYCLED RUBBER 858. Mixing should

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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 by hand, 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).
- The application procedure for SAFEPOL MULTICOLOR (PU BINDER 1118 and EPDM 856 mixture) on top of asphalt or waterproof concrete directly is the same as for SAFEPOL MIXTURE (the mixture of PU BINDER 1118 and RECYCLED RUBBER 858).

RATIO MIXTURE

- 16% PU BINDER 1118 and 84%RECYCLED RUBBER 858, for sports flooring.
- 14% PU BINDER 1118 and 86% RECYCLED RUBBER 858, for playground flooring.
- 17% PU BINDER 1118 and 83% EPDM 856.

PACKAGING

220kg in barrels.

STORAGE

12 months in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5° C and maximum temperature 30° C.

REMARKS

- 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 1118** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing PU BINDER 1118 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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