

PU BINDER 1118

GENERAL CHARACTERISTICS

PU BINDER 1118 is a moisture curing polyurethane prepolymer, based on MDI with 100% solid content. It is MDI based and solvent free with an expected curing time of between 4 and 6 hours in average atmospheric temperatures. **PU BINDER 1118** exhibits excellent adhesion to most rubber granulates and gives a strong performance both in terms of tensile strength and durability. It is mixed with recycled rubber or EPDM in granules for the creation of black or colored playgrounds and athletic tracks.

TECHNICAL DATA

Basis:	one-component polyurethane prepolymer
Appearance:	viscous liquid
Colors:	yellow transparent
Viscosity:	between 2000-2400 cps at 25°C
Density:	1,1-1,2 g/cm ³
NCO content:	4,90-5,15
Non volatiles:	100%
Setting point	5°C
Tensile strength	≥0.2Mpa
Elongation rate at break	≥50%

PREPARATION - APPLICATION

Applied on dry surfaces free of materials that might prevent bonding e.g. dust, loose particles, grease etc. 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 BINDER 1118** diluted with 50% **POLYURETHANE SOLVENT 133** in two layers. It is recommended that the second layer should be applied in sections each time, right before the application of the **PU BINDER 1118** and **RECYCLED RUBBER 858** or **PU BINDER 1118** and **EPDM 856** mixture, in order to ensure proper adhesion. Consumption: 250-600 gr/m², depending on the absorption of the underlay.
- Good mixing of the **PU BINDER 857** and the **RECYCLED RUBBER 858** or **EPDM 856**. Mixing should be performed using a low revolution mixer (300-400 rpm) for 3-5 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 a notched trowel.
- Small irregularities in the surface may be removed using a metallic cylinder.

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- The next day, after hardening of the mixture follows priming of the surface with **PU BINDER 1118** diluted with 50% **POLYURETHANE SOLVENT 133** as described above and application of the **PU BINDER 1118** and the **EPDM 856** mixture.

RATIO MIXTURE

Recommended: 15% **PU BINDER 1118** and 85% **RECYCLED RUBBER 858**.
15% **PU BINDER 1118** and 80% **EPDM 856**.

APPLICATION TOOLS

Paving machine, flat metal trowels. Tools should be cleaned with **POLYURETHANE SOLVENT 133** immediately after use.

PACKAGING

Supplied in barrels of 200-210kg.

STORAGE

Six months in unopened containers in dry places at temperatures 10-30°C.

REMARKS**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. Flammable before application.

For more information consult the material safety data sheet.

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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 POLAT S.A.

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