

Ref: 5380DS
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PU5380 WET POUR BINDER FOR RUBBER MULCH

DESCRIPTION

PU5380 is a MDI based polyurethane prepolymer for use as a rubber mulch binder. It has a relatively low viscosity and its fast cure speed is suited for the application of play areas and paths.

PROPERTIES

Criteria	Typical Value
Colour:	Unpigmented (pale yellow)
Viscosity at 23°C:	2,800 ± 500 mPa.s
NCO content:	ca 7 – 8 %
Application Temperature:	15 – 40°C
Relative Humidity:	40 – 90%
Cure Times:	5 – 7 hours at 20°C 2 – 3 hours at 30°C

STORAGE

Must be stored in closed, air-tight containers - the product reacts with moisture, leading firstly to an increase in viscosity and finally gelation.

- The containers should be kept cool
- Storage at elevated temperatures will result in a viscosity increase.

Storage life if stored under the recommended conditions: 12 months.

APPLICATION

Surface Preparation

Ensure the ground to be coated is well prepared. All loose material should be removed. Ensure the surface is free from contamination such as oil and grease. The surface should also be dry.

Rubber Mulch Layer

Mix rubber mulch flakes and binder PU5380 at desired ratio. Ensure the volumetric ratio of binder addition is considered as the bulk density of rubbers will vary. Rubber mulch flakes should be dry in order to stop accelerated cure times and foaming of the binder.

For adequate mixing, a high torque rotary mixer should be used. Rubber and binder should be mixed for up to 5 minutes ensuring all the rubber is coated.

The product can then be laid out on a prepared surface and compacted using a hand trowel or weighted roller. Ensure an even compaction of the rubber. A release agent should be used on all tools to avoid adhesion of the binder to the tools. Ensure all equipment is cleaner well after use.

In some cases, particularly low temperatures, D4861 Rubber Crumb Binder Accelerator (1k) may need to be added.

D4861 accelerator addition	5°C	10°C	15°C
0% Accelerator	10 hours	8 hours	6.5 hours
0.01% (1 ml in 9 Kg)	6 hours	5 hours	4.5 hours
0.02% (2 ml in 9 Kg)	4 hours	3 hours	2.5 hours
0.03% (3 ml in 9 Kg)	3 hours	2 hours	1.5 hours

MDI polyurethanes are subject to colour changes during exposure to ultra violet light. This will not affect the mechanical properties of the binder.

HAZARDS DURING TRANSPORT AND STORAGE

For information, please refer to Health and Safety Data Sheets for this product.