

Ref: 4517DS
Issued: 13 May 2021

PU4517 High Tensile Rubber Crumb Binder

DESCRIPTION

An MDI based polyurethane prepolymer for use as a rubber crumb binder. It has a relatively low viscosity and its fast cure speed is suited for play areas.

PU4517 has been formulated as a flexible moisture curing binder for in situ recycled rubber crumb shock pads and EPDM play surface top coats, which are laid by hand.

PROPERTIES

Criteria	Typical Value
Colour:	Unpigmented (brown)
Viscosity at 23°C:	3,800 ± 500 mPa.s
NCO content:	ca 8 – 9 %
Application Temperature:	15 – 40°C
Relative Humidity:	40 – 90%

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: 6 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.

Shock Pad Base Layer / Top Coats

Mix rubber granules and binder PU4517 at desired ratio. Ensure the volumetric ratio of binder addition is considered as the bulk density of rubbers will vary. Rubber granules 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 upto 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, BINDER PART C, may need to be added.

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.