



WHITECHEM PU RB 102

1 – DESCRIPTION

WHITECHEM PU RB 102 is a one component, UV stability enhanced polyurethane binder which cures by reaction with atmospheric moisture. It is 100% solids, low viscosity and produces an elastic membrane with excellent adhesion to recycled rubber granules. This is our slow curing speed binder which is primarily used in pour in place applications where humidity is in the %50- %80 and temperatures is in the 20-35 °C.

2 – PROPERTIES

- One component
- Excellent adhesion on rubber
- Enhanced UV stability
- Flexible
- Durable
- Moisture cure
- Solvent free

3 – APPLICATIONS

- Parks
- Children and school playgrounds
- Running tracks and walkways
- Sport facilities
- Outdoor recreation areas
- Synthetic surfaces

4 - INSTRUCTIONS

- Whitechem PU RB 102 is ready for use as supplied and should be mixed with dry rubber granules are follows:
Whitechem PU RB 102 : 15-20% by weight
Rubber granules : 80-85 % by weight



- Mix MDI binder into rubber crumb mixture until completely wetted. The mixture should be prepared and mixed in a clean and dry mechanical mixer until a homogenous mixture is obtained. The mixing period in the mixer after having added the binder to the rubber granules should be 3-5 minutes depending on the quantity being mixed. This mixture can be applied onto the asphalt or concrete with a trowel in order to obtain a uniform surface. The surface hardens through the reaction of the binding agent with humidity.
- Surface preparation: Before application the surface to be coated must be clean, dry and free of oil, grease and dirt. Full curing take place 24-48 hours after application. Do not apply over wet substrates. To achieve an even adhesion throughout the entire area the ground must be treated with a primer prior to installation.

5- PACKAGING

220 kg drums.

6- STORAGE AND SHELF LIFE

Store the product in a ventilated place away from direct exposure to sunlight. Keep between 10°C and 25°C for quality reasons. Shelf life of the unopened original packaging is 9 months from manufacturing date.

7- SAFETY

Avoid breathing vapors. Avoid contact with skin and eyes. Take precautions during application. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended.

Refer to SDS sheet prior to use.

8- RESTRICTIONS

- Since curing reaction starts with atmospheric moisture, ambient humidity and temperature levels are critical. The cure time varies with temperature and humidity. High temperature and high humidity will decrease cure time; while low temperature and low humidity will increase it.



- Moisture content in the rubber crumbs is also important. Before starting any job, it is important to record temperature and humidity levels, to determine binder suitability. Usually the surface may be walked upon the next day.

9- TECHNICAL PROPERTIES

Basis	: Polyurethane
Color	: Yellow/Amber
Solids by weight (%)	: 100
Viscosity (mPa.s)	: 3500-4000 (at 25 °C)
Density (gr/cm³)	: 1,1 ±0,03 (at 25 °C)
Free NCO (%)	: 10 -11,5
Open Time (hr)	: 1- 1,5 (at 23 °C 50% H)
Cure Time (hr)	: 24 (at 23 °C 50% H)