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## Erapol EMD73RB

POLYURETHANE RUBBER BINDER

### TECHNICAL DATASHEET

**Erapol EMD73RB** is a single component, moisture cured polyurethane. It has primarily been designed as a low cost means of binding together reconstituted rubber to produce sheeting for uses on: Sports Surfaces, Playground Surfaces and Underlay for synthetic grass in tennis courts

### Application

**Erapol EMD73RB** is a MDI system and therefore contains **NO FREE TDI**.

### Product Specification

Viscosity @ 25°C (cps)	4500 - 4900
Viscosity @ 30°C (cps)	2400 - 2800

### Formulations

Successful formulations to date include the following:

	MATERIAL	PARTS PER HUNDRED (pph)
A.	Rubber	90
	<b>Erapol EMD73RB</b>	10
	Water	0.17
B.	Rubber	80
	<b>Erapol EMD73RB</b>	20
	Water	0.35
C.	Rubber	70
	<b>Erapol EMD73RB</b>	30
	Water	0.5



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## Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

	MATERIAL	PARTS PER HUNDRED (pph)	TACK FREE TIME 25°C (hours)
1.	Rubber	80	3.5
	Erapol EMD73RB	20	
2.	Rubber	80	3.0
	Erapol EMD73RB	20	
	Water	0.35	

\* **NOTE:** Tack free time is to be used only as a guide and not as a specification. The tack free time will be influenced by the relative humidity of the day and may increase or decrease. This must be taken into account.

## Processing Procedure

- Mix together thoroughly until rubber has been completely wetted out by **Erapol EMD73RB**. As a rule of thumb, the more **Erapol EMD73RB** added as a percentage of rubber, the stronger the matrix produced.
- Water may be added to the **Erapol EMD73RB** (0 - 2% by weight of **EMD73RB**) while mixing to shorten cure time and tack free time.  
**NOTE:** Should the ratio of water exceed 2%, foaming of the polymer may occur.
- The liquid matrix should be compression moulded, preferably under heat, (up to 150°C). It has been found that moulding between silicone coated paper prevents sticking and facilitates rapid demould.