



Era Polymers Pty. Ltd.
25-27 Green Street, Banksmeadow
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AUSTRALIA
www.erapol.com.au

Erapol EMD76RB

POLYURETHANE RUBBER BINDER

TECHNICAL DATASHEET

Erapol EMD76RB is a single component, low viscosity moisture cured polyurethane. This product is an MDI based polyether and has been designed for compressive moulding and rubber binding applications. The product has very good reactivity and is a very light straw colour that can be pigmented quite easily.

Application

Erapol EMD76RB 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.

Product Specification

Viscosity at 25°C (cps)	3000 - 3400
Viscosity at 30°C (cps)	1700 - 2100

Formulations

Successful formulations to date include the following:

	MATERIAL	PARTS PER HUNDRED (pph)
A.	Rubber	90
	Erapol EMD76RB	10
	Water	0.17
B.	Rubber	80
	Erapol EMD76RB	20
	Water	0.35
C.	Rubber	70
	Erapol EMD76RB	30
	Water	0.5



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Processing Procedure

1. Mix together thoroughly until rubber has been completely wetted out by **Erapol EMD76RB**. As a rule of thumb, the more **Erapol EMD76RB** added as a percentage of rubber, the stronger the matrix produced.
2. Water may be added to the **Erapol EMD76RB** (0 - 2% by weight of **EMD76RB**) while mixing to shorten cure time and tack free time.
NOTE: Should the ratio of water exceed 2%, foaming of the polymer may occur.
3. 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.