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AUSTRALIA
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Erapol CCM85A

MEDIUM PERFORMANCE POLYETHER BASED
POLYURETHANE ELASTOMER

TECHNICAL DATASHEET

Erapol CCM85A is a medium performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-orthochloroaniline) and flammable solvents that produces an economical elastomer with good toughness abrasion resistance and high chemical resistance.

It offers advantages in that it can be readily processed and cured at room temperature. The convenient mix ratio and low viscosity allow easy processing.

Applications and uses include: Flexible moulds for concreting, cast in place liners, casters, shock and sound dampening pads, belts.

Product Specifications

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Specific Gravity at 25°C	1.08	1.21

Mixing and Curing Conditions

Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	30
Prepolymer (A) Temperature	(°C)	25 – 30
Curative (B) Temperature	(°C)	25 – 30
Mixed Viscosity at 25°C	(cps)	4400
Pot Life at 25°C	(mins)	10 – 15
Cure at 25°C		24 hours at 25°C will result in an 80% cure. Fully cures after 7 days. Alternatively a 70°C cure for 4-6hrs

* Based on a 200 grams sample

Physical Properties

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

		CCM85A	TEST METHOD
Hardness	(Shore A)	85 ± 5	AS1683.15
Tensile Strength	(MPa)	26	AS1683.11
Elongation	(%)	520	AS1683.11
Rebound Resilience	(%)	40	DIN 53512
Abrasion Resistance	(mm^3)	200	AS1683.21
Cured Specific Gravity	(g/cm^3)	1.10	AS1683.4

Erapol CCM85A can be mixed by hand or readily processed through suitable polyurethane dispensing equipment. Cartridge systems using a 4 : 1 (Part A / Part B) by volume ratio can also be utilized.

NOTE: Both Part A and B components are moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a period of time.

Processing Procedure

1. **Erapol CCM85A** Part A should be heated to 30°C (the temperature may be increased to a maximum of 80°C) and thoroughly degassed at -95 kPa of vacuum until excessive foaming stops.

2. The Part B (Curative) should be added to Part A (Prepolymer) and processed at room temperature. After adding the curative, mix thoroughly, being careful not to introduce air into the mixture.

3. Pour mixed **Erapol CCM85A** into moulds that have been precoated with Eralease Classic (release agent).

Handling Precautions

Erapol CCM85A Part A contains a small amount of free TDI. Therefore the product should be used in well-ventilated areas. Avoid breathing in vapours and protect skin and eyes from contact.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician.

If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air. Call a physician.