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AUSTRALIA
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Erapol CCM95A

MEDIUM PERFORMANCE POLYETHER BASED POLYURETHANE ELASTOMER

TECHNICAL DATASHEET

Erapol CCM95A is a medium performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-orthochloroaniline) and flammable solvents, which produce an elastomer with good toughness, high elongation, tear strength and abrasion resistance.

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

Applications

Moulds for concreting and stamping, cast in place liners, and sound dampening.

Product Specifications

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Specific Gravity at 25°C	1.08	1.2
Viscosity at 25°C (cps)	9,800 – 10,200	400 – 440
% NCO	6.00 – 6.50	-

Mixing and Curing Conditions

Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	15
Prepolymer (A) Temperature	(°C)	20 – 30 (may be processed up to 60°C)
Curative (B) Temperature	(°C)	20 – 30
Mixed Viscosity at 25°C	(cps)	4800
Pot Life at 25°C	(mins)	7 - 8
Cure at 25°C		24 hours will result in an 80% cure. Fully cured after 7 days. (Cure temperature may be increased to 80°C where full cure is reached after 8 hours.)

* Based on a 200 grams sample

Physical Properties

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

		CCM95A	TEST METHOD
Hardness	(Shore A)	95 ± 5	AS1683.15
Tensile Strength	(MPa)	23	AS1683.11
Elongation	(%)	320	AS1683.11
Rebound Resilience	(%)	30	DIN 53512
Abrasion Resistance	(mm^3)	145	AS1683.21
Cured Specific Gravity	(g/cm^3)	1.10	AS1683.4
Linear Shrinkage at 23°C (500mm length x 46mm width x 16 mm thick)	(%)	0.2	

Erapol CCM95A can be mixed by hand or readily processed through suitable polyurethane dispensing equipment.

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 CCM95A** Part A should be heated to 30°C (the temperature may be increased to a maximum of 80^{O}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 CCM95A** into moulds that have been precoated with Eralease Classic (release agent).

Handling Precautions

Erapol CCM95A 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.