

# **Erapol CCM55A**

MEDIUM PERFORMANCE POLYETHER BASED POLYURETHANE ELASTOMER

#### **TECHNICAL DATASHEET**

**Erapol CCM55A** is a medium performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-orthochloroaniline) and flammable solvents, which produces an economical elastomer with outstanding toughness, high elongation, and good 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 and uses include: Flexible moulds for concrete and concrete stamp pads, cast in place liners and sound dampening applications.

#### **Product Specifications**

ISOCYANATE PREPOLYMER (A	) POLYOL CURATIVE (B)
1.02	1.2
9,800 – 10,200	160 – 200
6.00 – 6.50	-
ps	1.02 (ps) 9,800 – 10,200

#### **Mixing and Curing Conditions**

Isocyanate Prepolymer (A)	(pbw)	100	
Polyol Curative (B)	(pbw)	56	
Prepolymer (A) Temperature	(°C)	20 – 30	
Curative (B) Temperature	(°C)	20 – 30	
Mixed Viscosity @ 25°C	(cps)	2700	
Pot Life @ 25°C	(mins)	20	
Cure @ 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 cures are reached after 12-14 hours.)	

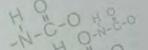
<sup>\*</sup> Based on a 200 grams sample



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### **Physical Properties**

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

	////>	CCM55A	TEST METHOD
Hardness	(Shore A)	55 ± 5	AS1683.15
Tensile Strength	(MPa)	15	AS1683.11
Elongation	(%)	550	AS1683.11
Rebound Resilience	(%)	50	DIN 53512
Abrasion Resistance	(mm³)	185	AS1683.21
Cured Specific Gravity	$(g/cm^3)$	1.10	AS1683.4
Linear Shrinkage @ 23°C	(%)	0.2	
(500mm length x 46mm width x 2	16 mm thick)	0.2	

**Erapol CCM55A** 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 CCM55A** 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 CCM55A** into moulds that have been precoated with Eralease Classic (release agent).

## **Handling Precautions**

**Erapol CCM55A** 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.



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