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TECHNICAL DATA

Erapol CCM55A

MEDIUM PERFORMANCE POLYETHER BASED URETHANE
ELASTOMER

Erapol CCM55A is a medium performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-ortho-chloroaniline) 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 SPECIFICATION

	Part A	Part B
% NCO	6.25 ± 0.25	-
Specific Gravity @ 25°C	1.02	1.2
Viscosity @ 25°C (cps)	10,000 ± 200	180 ± 20

MIXING AND CURING CONDITIONS

Erapol CCM55A Part A (pbw)	100
Erapol CCM55A Part B (pbw)	56
Recommended % Theory	95
Erapol Temperature (°C)	20-30
Working Life @ 25°C (minutes)	30
Mixed Viscosity @ 25°C (cps)	2700
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.)

TYPICAL CURED PROPERTIES

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



This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

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PHYSICAL PROPERTIES

Hardness (Shore A)	55±5
Tensile strength (MPa)	15
Elongation (%)	550
Abrasion Resistance (mm³)	185
Rebound Resilience (%)	50
Cured Specific Gravity	1.10
Linear Shrinkage @ 23° C (500mm length x 46mm wide x 16mm thick) (%)	0.2

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 1 – 5 mmHg 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, which have been pre-coated with Eralase (release agent).

ADHESION

Adhesion of Erapol based elastomers to various substrates is at best marginal if a primer is not used. Please consult Era Polymers for specific recommendations to improve adhesion.

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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