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Erapol CCM35A

MEDIUM PERFORMANCE POLYETHER BASED
POLYURETHANE ELASTOMER

TECHNICAL DATASHEET

Erapol CCM35A is a medium performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-ortho-chloroaniline) and flammable solvents that produce an economical elastomer with outstanding elongation.

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.

Erapol CCM35A is not UV stable.

Application

Applications and uses include: Flexible moulds for concrete and concrete stamp pads and ceramic mouldings, soft sound absorbing mats.

Product Specification

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
% NCO	6.00 – 6.50	-
Specific Gravity at 25°C	1.08	1.08
Viscosity at 25°C (cps)	9800 – 10200	100 – 140

Mixing and Curing Conditions

Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	106
Isocyanate Prepolymer (A)	(pbv)	100
Polyol Curative (B)	(pbv)	100
Recommended % Theory		95
Erapol Temperature	(°C)	20 – 30
Curative Temperature	(°C)	20 – 30
Pot Life	(mins)	15 – 16
Mixed Viscosity at 25°C	(cps)	2000
Cure at 25°C		36 hours will result in an 80% cure. Fully cures after 7 days. (Cure temperature may increase to 80°C where full cure is reached after 12 -14 hours.)

The above results are based on 200 grams of mixed sample.

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.



Physical Properties

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

		CCM Iso/Polyol	TEST METHOD
Hardness	(Shore A)	35 ± 5	AS1683.15
Tensile Strength	MPa (psi)	> 5 (> 725)	AS1683.11
Elongation	(%)	1500 ± 200	AS1683.11
Cured Specific Gravity	(g/cm ³)	1.10	AS1683.4
Angle Tear Strength, Die C	(kN/m)	15.2	AS1683.12
Trouser Tear Strength	(kN/m)	2.6	AS1683.12

Processing Procedure

1. Erapol CCM35A Part A should be heated to 30°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 CCM35A into moulds that have been precoated with Erarelease Classic (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 CCM35A 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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