

**SYDNEY**

25-27 Green St,  
East Botany NSW 2019  
Phone: (02) 9666 3788  
Fax: (02) 9666 4805

**MELBOURNE**

David Parker  
Mobile: 0412 181 405  
Fax: (03) 9754 1854  
Victor Pilati  
Mobile: 0412 265 499  
Fax: (03) 8300 0199

**BRISBANE**

Peter Holland  
Mobile: 0412 171 167  
Fax: (07) 3264 3744

**SINGAPORE**

H.K. Moey  
9 Elias Terrace,  
Singapore 519772  
Phone: +65 6582 8103  
Mobile: +65 9751 0026



# TECHNICAL DATA

## Erapol CCM75A

### MEDIUM PERFORMANCE POLYETHER BASED URETHANE ELASTOMER

**Erapol CCM75A** 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 good toughness and high elongation and good chemical 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, concrete moulds and stamp pads, cast in place linings, sound dampening applications and casters.

## PRODUCT SPECIFICATIONS

	<b>Part A</b>	<b>Part B</b>
<b>Appearance</b>	Clear, light amber	Brown / light green
<b>Specific Gravity @ 25°C</b>	1.02	1.04
<b>Viscosity @ 25°C (cps)</b>	10,000 ± 200	240 ± 200

## MIXING AND CURING CONDITIONS

<b>Mix Ratio, (Part A / Part B)</b>	100/45 (by weight)
<b>Mix Ratio, (Part A / Part B)</b>	100/44 (by volume)
<b>Temp of Part A (°C)</b>	25-30
<b>Temp of Part B (°C)</b>	25-30
<b>Working Life @ 25°C (minutes)</b>	12-15
<b>Mixed Viscosity @ 25°C (cps)</b>	3000
<b>Cure @ 25°C</b>	24 hrs at 25° C will result in an 80% cure. Fully cured at 7 days at 20° C. Alternatively a 70°C cure for 4-6 hrs will result in 80% cure

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.



# Era Polymers Pty. Ltd.

A.B.N. 14 003 055 936

erapol@erapol.com.au  
www.erapol.com.au

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## PHYSICAL PROPERTIES

<b>Hardness (Shore A)</b>	75 ± 3
<b>Tensile strength (MPa)</b>	20
<b>Elongation (%)</b>	450
<b>Abrasion Resistance (mm<sup>3</sup>)</b>	195
<b>Rebound Resilience (%)</b>	54
<b>Cured Specific Gravity</b>	1.10
<b>Linear Shrinkage @ 23° C (500mm length x 46mm wide x 16mm thick) (%)</b>	0.1

**Erapol CCM75A** 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. Carefully weigh the correct proportions of the two components together in one container, mix thoroughly. Be careful not to entrap air whilst mixing.
2. Pour the mixed material into moulds that have been prepared with release agent, being careful to avoid trapping air.
3. Allow casting to cure before demoulding.

## HANDLING PRECAUTIONS

**Erapol CCM75A** 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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Version: 3

Date of Issue: 6/12/2002

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