

# TECHNICAL DATA

## KIRKSID CCM80A

### **MEDIUM PERFORMANCE POLYETHER BASED URETHANE ELASTOMER**

**Kirkside CCM80A** 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 good toughness abrasion resistance and high chemical resistance.

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

Applications and uses include: Flexible moulds for concreting, cast in place liners, casters, shock and sound dampening pads, belts.

### PRODUCT SPECIFICATIONS

	Part A	PartB
<b>Appearance</b>	Clear, light amber	Brownish/green
<b>Specific Gravity @ 25°C</b>	1.08	1.01
<b>Viscosity @ 25°C (cps)</b>	10,000 + 200	260 ± 20

### MIXING AND CURING CONDITIONS

Mix Ratio (Part A / Part B) (pbw)	100/35
Temp of Part A (°C)	25-30
Temp of Part B (°C)	25-30
Working Life @ 25°C (minutes)	15
Mixed Viscosity @ 25°C (cps)	4400
Cure @ 25°C	24 hrs at 25° C will result in an 80% cure. Fully cured at 7 days at 25° C. Alternatively a 70°C cure for 4-6hrs will result in 80% cure.

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## PHYSICAL PROPERTIES

<b>Hardness (Shore A)</b>	<b>80 + 3</b>
<b>Tensile strength (MPa)</b>	<b>24</b>
<b>Elongation (%)</b>	<b>500</b>
<b>Abrasion Resistance (mm<sup>3</sup>)</b>	<b>175</b>
<b>Rebound Resilience (%)</b>	<b>40</b>
<b>Cured Specific Gravity</b>	<b>1.10</b>
<b>Linear Shrinkage @ 23° C (500mm length x 46mm wide x 16mm thick) (%)</b>	<b>0.2</b>

Kirkside CCM80A 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

Kirkside CCM80A 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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