TECHNICAL DATA
KIRKSIDE CCM90A

MEDIUM PERFORMANCE POLYETHER BASED URETHANE ELASTOMER

Kirkside CCM90A 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, chemical resistance, high elongation, and good tear strength.

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: Moulds for concrete and concrete stamp pads, sound dampening, cast in place liners and casters.

PRODUCT SPECIFICATION

	Part A	PartB
% NCO	6.25 + 0.25	-
Specific Gravity @ 25°C	1.02	1.2
Viscosity @ 25°C (cps)	10,000 ±200	520 ± 20

MIXING AND CURING CONDITIONS

Kirkside CCM90A Part A (pbw)	100
Kirkside CCM90A Part B (pbw)	20
Temperature of Part A (°C)	20-30 (may be processed up to 60oC)
Working Life @ 25°C (minutes)	8-10
Mixed Viscosity @ 25°C (cps)	4900
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 cure is reached after 8-10 hours.)

TYPICAL CURED PROPERTIES

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

PHYSICAL PROPERTIES

Hardness (Shore A)	90+5
Tensile strength (psi)	2950
Tear Strength, D470 (kN/m)	45
Elongation (%)	370
Abrasion Resistance (mm^3)	260
Rebound Resilience (%)	35
Cured Specific Gravity	1.10
Linear Shrinkage @ 23° C (500mm x 46mm x 16mm) (%)	0.2

PROCESSING PROCEDURE

1. Kirkside CCM90A **Part A should be heated to 30°C (the temperature may be increased to amaximum 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 Kirkside CCM90A into moulds, which have been pre-coated with Eralease (release agent).**

ADHESION

Adhesion of Kirkside CCM90A elastomer to various substrates is at best marginal if a primer is not used. Please consult Kirkside Products for specific recommendations to improve adhesion.

HANDLING PRECAUTIONS

Kirkside CCM90A **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.