URS 2070

HIGH TEAR & ABRASION RESISTANT POLYURETHANE SYSTEM

70 SHORE A

DESCRIPTION

URS 2070 is a medium viscosity polyester based urethane casting system with excellent dynamic and mechanical properties. **URS 2070** is designed for high abrasive applications were sliding and impinging types of abrasives are present as in, slurry pumps, sizing screens, chute liners, flotation components, etc.

FEATURES

Excellent Abrasion Resistance
Excellent Oil and Solvent Resistance
High Tear Strength
No MOCA or TDI
Hand or Machine Processing

LIQUID PROPERTIES	POL 640B	ISO 160A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	12,000-14,000 (90F)	100-500 (77 F)	7,000-10,000 (77 F)
Density (lbs/gal)	8.25-8.40	10.0 – 10.20	8.65-8.85

PHYSICAL PROPERTIES

Hardness, Shore A		70
Modulus, psi,	100%	300
	200%	410
	300%	580
Tensile Strength, Ultimate, psi		3315
Elongation %		605
Split Tear PLI		270
Bayshore Rebound, %		50

Tabor Abrasion, H-18 Wheel

Mg Loss / 1,000 Cycles	5
Mg Loss / 5,000 Cycles	50

URS 2070 Cont:

PROCESSING PARAMETERS

Melt and process polyol 640B at 100 to 150 degrees F.

Melt Isocyanate 160A if frozen at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 110 to 180 degrees F.

Mix Ratio: 100 parts Polyol 640B to 34 parts Isocyanate 160A by weight.

Degas mixture if possible or Pre-degas in dispensing equipment prior to casting.

Pot Life: (200g mass) (100 F) 8 to 10 minutes.

Demold: 1-2 hours or 30-45 minutes with maximum process and mold temperature. Catalyst may also be used to shorten demold time.

Post Cure: 16-24 hours @ 140 degrees F.

STORAGE

Systems should be stored unopened in air tight containers at 60-90 degrees F. Partially emptied. Containers should be swept free of atmospheric moisture with dry nitrogen before sealing.

HANDLING PRECAUTIONS

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.