URS 2086

Revised 3/21/00

ABRASION RESISTANT POLYURETHANE SYSTEM

86 SHORE A

DESCRIPTION

URS 2086 is a medium viscosity polyester based urethane casting system with excellent dynamic and mechanical properties.**URS 2086** is designed for high abrasive applications where 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 220 B	ISO 160 A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	7,000 – 7,800 (77F)	100 – 500 (77F)	4,700 – 5,500 (77F)
Density (lbs/gal)	9.50 – 9.70	10.0. – 10.20	9.70 – 9.80

PHYSICAL PROPERTIES

Hardness, Shore A	86
Modulus, psi, 100%	1050
200%	1380
300%	1700
Tensile Strength, Ultimate, psi	7200
Elongation, %	490
Split Tear PLI	327
Bayshore Rebound, %	35

Tabor Abrasion, H-18 Wheel

Mg Loss / 1,000 Cycles	20
Mg Loss / 5,000 Cycles	70

URS 2086 Continued:

PROCESSING PARAMETERS

Melt and process polyol 220B at 100 to 160 degrees F.

If frozen, melt Isocyanate 160A at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 100 to 160 degrees F.

Mix Ratio: 100 parts Polyol 220B to 45 parts Isocyanate 160A by weight..

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

Pot Life: (200g mass) (100 F) 10 to 15 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 at 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 SHEETS have been read and understood.