

URS 2082

ABRASION RESISTANT POLYURETHANE SYSTEM

82 SHORE A

DESCRIPTION

URS 2082 is a medium viscosity polyester based urethane casting system with excellent dynamic and mechanical properties. **URS 2082** 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
Superior Rebound

LIQUID

<u>PROPERTIES</u>	<u>POL 660B</u>	<u>ISO 160A</u>	<u>MIXED</u>
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	8.70-8.90

PHYSICAL PROPERTIES

Hardness, Shore A	82
Modulus, psi, 100%	975
200%	1250
300%	1680
Tensile Strength, Ultimate, psi	6800
Elongation %	490
Split Tear PLI	310
Bayshore Rebound, %	55

Tabor Abrasion, H-18 Wheel

Mg Loss / 1,000 Cycles	15
Mg Loss / 5,000 Cycles	65

URS 2082 Cont:

PROCESSING PARAMETERS

Melt and process polyol 660B 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 660B to 39 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.