Revised 7/15/13

URS 4575

100% SOLIDS, 1 TO 1 VOLUME, QUICK SET STRUCTURAL URETHANE SPARY SYSTEM 75 SHORE D

DESCRIPTION

URS 4175 is a high modulus, medium viscosity, polyether based structural spray urethane system with good rigidity and excellent impact resistance at a 1 to 1 by volume mix ratio. **URS 4175** is recommended for applications where stiffness and impact resistance in a quick set spray system are of consideration, such as artificial rock formations, ceiling panels, spa walls, foam backing, Styrofoam coatings, etc.

FEATURES

100% Solids
High Impact Strength
Excellent Tensile Strength
1 to 1 By Volume
No MOCA or TDI
Quick Setting

LIQUID PROPERTIES	POL 3020B	ISO 680A	MIXED
Appearance	Tan/Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	8,000-12,000 (77 F)	500-1,000 (77 F)	4,500-5,500 (77 F)
Density (lbs/gal)	8.80-9.00	9.65-9.85	9.20-9.40

PHYSICAL PROPERTIES

Hardness, Shore D	80
Modulus, psi, 100%	4250
Tensile Strength, Ultimate, psi	8110
Elongation, %,	195
Tear Strength “Die C” lbs/in	115
Compression Set, Method A	10
Impact Resistance ft-lbs/in	12
HDT (Deg F.)	195

URS 4175 Cont:

PROCESSING PARAMETERS

Process Polyol 3020B at 100 to 150 degrees F.

Melt Isocyanate 680A if frozen at 100 degrees F., otherwise use at 75-120 degrees F.

Mold Temperature: 65 to 110 degrees F.

Mix ratio: 1 part Polyol 3020B to 1 part Isocyanate 680A by volume or 91.20 parts polyol to 100 parts Isocyanate 680B by weight.

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

Pot life: (200g mass) (100 degrees F) 10 to 15 minutes.

Demold 10-15 minutes with maximum process and mold temperature. Catalyst may also be used to shorten demold time.

Post Cure: 16-24 hours @ 75 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.