

**URS 5080 HPX**

**ULTRA HIGH PERFORMANCE (EXTENDED POT LIFE)**

**NON-MDA LOW MOISTURE SENSITIVE POLYURETHANE CASTING SYSTEM**

**80 SHORE A**

**DESCRIPTION**

**URS 5080 HPX** is an amber, two component, Extended working time, polyether based urethane casting system designed for low moisture sensitivity with high physical performance. **URS 5080 HPX**'s unique handling characteristics allow for castings to be made on typically difficult moisture absorbing surfaces, wood-plasters-ceramics, without interacted exchange. **URS 5080 HPX** also sets and cures at room temperature, ideal for proto mold making, vibration damping parts, bumper pads, stripers, etc.

**FEATURES**

NON-MDA  
Extremely Low Shrinkage  
Low Moisture Sensitivity  
Room Temperature Processing  
Ultra High Performance  
No MOCA or TDI  
Hand or Machine Processing

**LIQUID**

<b><u>PROPERTIES</u></b>	<b><u>AMN 10360B</u></b>	<b><u>ISO 1050A</u></b>	<b><u>MIXED</u></b>
Appearance	Lt. Brown Liquid	Clear Liquid	Lt. Brown Liquid
Viscosity (cps)	100 - 300 (77F)	3,000-5,000 (77F)	2,8600-4,800 (77F)
Density (lbs/gal)	8.40 - 8.55	9.80 – 10.00	9.30– 9.50

**PHYSICAL PROPERTIES**

Hardness, Shore A	80
Tensile Strength, Ultimate, psi	3870
Elongation, %	460
Tear Strength PLI	410

**LINEAR SHRINKAGE**

D-2566	.0005 In/
1.125" Deep	

## **URS 5080 HPX Continued:**

### **PROCESSING PARAMETERS**

Melt AMN 10360B at 85 to 100 degrees F. if frozen, otherwise use at 65-100 degrees F.

Melt Isocyanate 1050A if frozen at 100 degrees F., otherwise use at 65 - 100 degrees F.

Mold Temperature: 60 to 100 degrees F.

Mix Ratio: 14 parts AMN 11360B to 100 parts Isocyanate 1050A by weight.

Degas mixture if possible

Pot Life: (200g mass) (77 F) 25 to 35 minutes.

Demold: 1 - 2 hours or 30 - 45 minutes with maximum process and mold temperature.

Post Cure: 24 hours @ 150 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 SAFETY DATA SHEETS. Do not handle or use until the SAFETY DATA SHEETS have been read and understood.