

## URS 5120

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

#### 20 SHORE A

#### DESCRIPTION

**URS 5120** is an amber, two component, NON-MDA, polyether based urethane casting system designed for low moisture sensitivity. **URS 5120's** unique handling characteristics allow for castings to be made on typically difficult moisture absorbing surfaces, wood-plasters-ceramics, without interacted exchange. **URS 5120** 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  
High Impact Strength  
No MOCA or TDI  
Hand or Machine Processing

#### LIQUID

<u>PROPERTIES</u>	<u>AMN 9010B</u>	<u>ISO 1020A</u>	<u>MIXED</u>
Appearance	Lt. Brown Liquid	Clear Liquid	Lt. Brown Liquid
Viscosity (cps)	200 - 700 (77F)	24,000-26,000 (77F)	20,000-22,000 (77F)
Density (lbs/gal)	8.40 - 8.60	8.60 – 8.80	8.40 – 8.60

#### PHYSICAL PROPERTIES

Hardness, Shore A	20
Tensile Strength, Ultimate, psi	480
Elongation, %	500
Tear Strength PLI	85

#### LINEAR SHRINKAGE

D-2566	.0005 In/In
1.125" Deep	

## **URS 5120 Continued:**

### **PROCESSING PARAMETERS**

Process AMN 9010B at 65 to 160 degrees F.

Melt Isocyanate 1020A if frozen at 100 degrees F., otherwise use at 65 - 160 degrees F.

Mold Temperature: 65 to 160 degrees F.

Mix Ratio: 20 parts AMN 9010B to 100 parts Isocyanate 1020A by weight.

Pot Life: (200g mass) (77 F) 25 to 40 minutes.

Demold: 4 - 5 hours or 2 - 3 hours with maximum process and moderate temperatures.

Post Cure: 48 hours @ 77 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.