

# Product Data



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## UCA1015/UCB1015

### TWO COMPONENT FLEXIBLE POLYURETHANE CASTING RESIN

#### FEATURES

\*\*\* TOUGH, FLEXIBLE POLYMER \*\*\*

\*\*\* EXTENDED GEL & CURE \*\*\*

\*\*\* VERY LOW ODOR (NO HYDROCARBON EXTENDERS) \*\*\*

UCA-1015/UCB-1015 is a two-component polyurethane casting system that, when mixed in the proper 4.5:1 by volume ratio, reacts to give a flexible yet extremely tough and durable polyurethane polymer. Among the applications for such a polymer are the casting of mold divider bars and gasketing materials.

This casting system is also characterized by its very low odor due to the absence of the hydrocarbon extenders that are common to some polyurethane casting resins.

#### TYPICAL LIQUID PROPERTIES

	<u>UCA-1015</u>	<u>UCB-1015</u>
Specific Gravity, 77°F:	1.21-1.23	1.01-1.03
Weight per Gallon:	10.10-10.30	8.40-8.60
Color:	Brown	Clear
Viscosity, Zahn #2 Cup:	-----	30-40 seconds
Viscosity, Brookfield, #3 Spindle	750 - 800 cps	-----

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HKR057-121792rev

## APPLICATION

UCA-1015 and UCB-1015 are shipped as separate components. When combined in the proper ratio of 4.5:1 by volume, they will react to form a flexible, tough and durable polyurethane polymer. Correct volumes of the two components should be measured, combined and mixed for 40-60 seconds, then immediately poured into the desired mold. The polymer will gel in 8-10 minutes from the initial blending point.

### TYPICAL GEL AND CURE VALUES OF MIXED POLYURETHANE

Mixing Ratio: 1 part of UCA-1015:4.5 parts of UCB-1015 by volume  
25.4 parts by weight of UCA-1015;  
100 parts by weight of UCB-1015

Recommended Mixing  
Temperatures:

70-80°F

Mixing Time: 40-60 seconds and pour immediately

Gel Time: 8-10 minutes

Gel To Peak

Exotherm Time: 10-15 minutes

Peak Exotherm,  
100cc mass, 2" thick:

150-170°F

Color of Cured Part: Milky White

Hardness of Casting

Shore A: 60

Caution: UCA-1015 and UCB-1015 are both very sensitive to moisture and increased moisture can adversely affect the quality of the casting. Keep containers well sealed when not in use and do not allow the individual components to stand exposed to air for more than a few minutes before mixing.

UCA-1015 and UCB-1015 are subject to hazing at low temperatures. If the liquid in the container appears hazy, it is imperative that this material be carefully heated and agitated until the liquid becomes clear.