

Product Data



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UCA1019/UCB1019

TWO COMPONENT FLEXIBLE POLYURETHANE CASTING RESIN

FEATURES

*** TOUGH, FLEXIBLE POLYMER ***

*** MEDIUM GEL & CURE ***

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

UCA-1019/UCB-1019 is a two-component polyurethane casting system that, when mixed in the proper 1:1 by volume ratio, quickly 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-1019</u>	<u>UCB-1019</u>
Specific Gravity, 77°F:	1.13-1.15	1.00-1.02
Weight per Gallon:	9.4-9.6	8.30-8.50
Color:	Clear	Clear
Viscosity, Zahn #2 Cup:	-----	30-35 seconds
Viscosity, Brookfield, #3 Spindle	300 - 400 cps	-----

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APPLICATION

UCA-1019 and UCB-1019 are shipped as separate components. When combined in the proper ratio of 1:1 by volume, they will quickly react to form a flexible, tough and durable polyurethane polymer. Correct volumes of the two components should be measured, combined and mixed for 60 seconds, then immediately poured into the desired mold. The polymer will gel in 7-9 minutes from the initial blending point.

TYPICAL GEL AND CURE VALUES OF MIXED POLYURETHANE

Mixing Ratio: 1 part of UCA-1019:1 part of UCB-1019 by volume

Recommended Mixing
Temperatures: 70-80°F

Mixing Time: 60 seconds

Gel Time: 7-9 minutes

Gel To Peak
Exotherm Time: 3-6 minutes

Peak Exotherm,
100cc mass, 2" thick: 200-220°F

Color of Cured Part: Clear

Hardness of Casting
Shore A: 90-95

Caution: UCA-1019 and UCB-1019 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-1019 and UCB-1019 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.