

Product Data



908 LENOIR ROAD • POST OFFICE BOX 1809
HICKORY, NORTH CAROLINA • 28603-1809
TELEPHONE (828) 328-1721
TOLL FREE (800) 334-5975
FAX (828) 328-4572

UCA4100/UCB4100

UCA-4100/UCB-4100 is a two-component polyurethane casting system that, when mixed in the proper 1:1 by volume ratio, quickly reacts to give a tough, durable polyurethane polymer.

TYPICAL LIQUID PROPERTIES

	<u>UCA-4100</u>	<u>UCB-4100</u>
Specific Gravity, 77°F:	1.140	0.98
Weight per Gallon, 77°F:	9.5 lbs.	8.2 lbs.
Color:	Amber	Red
Viscosity, Zahn #2 Cup:	18-20 seconds	40-45 seconds

APPLICATION

UCA-4100 and UCB-4100 are shipped as separate components. When combined in the proper ratio of 1:1 by volume, they will quickly react to form a tough, durable polyurethane polymer. Equal volumes of the two components should be measured and combined in a tall, narrow mixing container, taking care to pour the liquid down the side of the container to minimize air entrapment. Scrape the sides of the container and mix gently for 20-25 seconds. Immediately pour mixture into the desired mold. This product will gel in about 75-85 seconds from the initial blending of the components. It is critical that all mixing and pouring be completed in about 45 seconds in order to facilitate complete flow and filling of the mold cavity before gelation.

TYPICAL GEL AND CURE VALUES OF MIXED POLYURETHANE

Mixing Ratio:	One part of UCA-4100 to one part UCB-4100 <u>by volume</u>
Recommended Mixing Temperatures:	70-80°F
Mixing Time:	20-25 seconds
Gel Time:	75-85 seconds
Gel to Peak Exotherm:	3-4 minutes
Peak Exotherm, 100cc mass, 2" thick:	220-250°F
Color of Cured Polymer:	Transparent Red
Hardness of Casting: Shore D Durometer	78-80