



## URETHANE ADHESIVES

**URASET** adhesives are clear, two-part urethane resin systems, which combines good handling characteristics with excellent cured properties. Their low viscosity allows good flowability and air release. The cured elastomer has excellent bond to metals, ceramics, and many plastics used in **Medical Industries** such as acrylic, polycarbonate, PVC etc. They also have excellent water resistance, and are exceptionally resistant to thermal shock. They can be used as an adhesive or for potting, casting and encapsulating applications.

***UB-21, UB-55 and UB-70 are used for medical applications by our customers and have passed the stringent toxicity requirements.***

URASET ADHESIVES	UB-21	UB-21FC	UB-55	UB-70
Resin	PART-A	PART-A	PART-A	PART-A
Hardener	PART-B	PART-B	PART-B	PART-B
Mix ratio by weight (Part-A/Part-B)	58/100	58/100	67/100	73/100
Mix Viscosity @ 25°C, cp	825	825	700	600
Pot life (100 grams) @ 25°C, hr	1	5 to 7 min (5 grams)	1	1
Recommended Cure	2 hrs @ 100°C	2 hrs @ 60°C	2 hrs @ 100°C	2 hrs @ 100°C
Alternate Cure	1-2 days @ 25°C	1-2 days @ 25°C	1-2 days @ 25°C	1-2 days @ 25°C
TYPICAL CURED PROPERTIES				
Color	Clear	Clear	Clear	Clear
Specific Gravity	1.1	1.1	1.1	1.1
Hardness, Shore	A-82	A-82	D-55	D-70
Lap shear strength to aluminum, psi	1200	1200	1800	2100
Water Absorption (immersion @ RT), %	0.04 (24 hr)	0.04 (24 hr)	0.11 (7 days)	0.1 (7 days)
Glass Transition Temperature, °C	4	4	9	12
Dielectric Constant @ 1 kHz	3.6	3.6	3.6	3.4
Dissipation Factor @ 1 kHz	0.04	0.04	0.04	0.02
Volume Resistivity, ohm-cm	2x10 <sup>13</sup>	>10 <sup>14</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>