

# **ULTRALOK ADHESIVES**

FOR MANUFACTURING & ASSEMBLY APPLICATIONS



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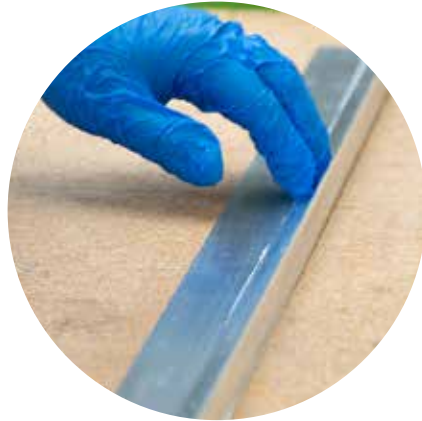
## MANUFACTURING INDUSTRY OVERVIEW: **WHEN VENDORS DON'T CUT IT**

In uncertain economic conditions filled with skilled labor shortages, supply chain issues, and rapidly changing market demands, manufacturers need not just a vendor, but a partner – One that brings real solutions to your assembly challenges, offering valuable advice, and troubleshooting problems when they invariably occur.

Strong partnerships are a must for all facets of the business, including your assembly operations. We can help improve processes, maintain supply continuity, reduce labor costs, and achieve your strategic objectives using our 100+ years of combined experience.

# ULTRALOK KEY **MARKETS** AND **APPLICATIONS**

Simplify adhesive decisions for your application with confidence.



## **Metal Fabrication** Key Features & Benefits

- Exceptional strength and durability for metal bonding
- Minimal surface prep required, eliminates grinding
- Lightweight alternative to welds and rivets for a cleaner look



## **Plastics & Composites** Key Features & Benefits

- Bonds plastics without the need for priming
- Provides high-impact resistance for composites
- Available in multiple chemistries to suit various plastics, including: Acrylic, Urethane, Epoxy, And more



## **Signage** Key Features & Benefits

- One Adhesive for Many Materials: Bonds plastics like acrylic, polycarbonate, ABS, and more – no primer needed
- Clear, Clean Bonds for a Sleek Look: Creates strong, nearly invisible bonds perfect for clear signs and displays
- Weatherproof for Outdoor Use: Stands up to sun, rain, and harsh weather for long-lasting durability.



## **Specialty Vehicle** Key Features & Benefits

- Lightweight construction for improved performance
- Unmatched strength for demanding applications
- Resists vibration and fatigue for long-lasting reliability

# ULTRALOK **SUBSTRATE** SELECTION **GUIDE**

	Substrate	Recommended Chemistry	UltraLok Product
<b>METALS</b>	Aluminum / Steel (+ stainless)	● MMA ● Epoxy	UL420GB UL5405NS
	Galvanized Metals	● MMA (specialty galvanized grade)	UL8000
	Aluminum Composite Metals (ACM)	● MMA (specialty ACM grade)	UL810
	Coated Metals (Powder Coat, E-Coat)	● Urethane	UL905
<b>PLASTICS</b>	Engineered Plastics (Acrylics, PC, ABS, PVC)	● MMA ● Urethane	UL300 UL905
	Polycarbonate / Trimcap	● MMA ● Urethane	UL607 UL901
	Composites / Carbon Fiber	● MMA ● Epoxy	UL300 UL5405NS
	Thermoplastics (TPU, TPO, Nylon, TPE)	● Urethane	UL9XX
	Foam Boards (HDU, PVC, PETG)	● Urethane	UL905
<b>OTHER</b>	Rubber*	● Epoxy	UL5405NS*
	Wood	● Epoxy	UL5405NS
	Ceramic / Stone / Concrete	● Epoxy	UL5405NS
	Glass*	● MMA*	UL420GB*

\*Primer Recommended

Other UltraLok grades may be available depending on cure speed, viscosity, or flexibility requirements. Contact 800.220.1966 for technical support.

## High-Performance Adhesives For Demanding Substrates

Chemistry	Benefit	Material
● MMA	Fast Snap Cure, Tough, Versatile	Metals, Plastics, Composites
● Epoxy	Maximum Strength & Rigidity	Metals, Stone, Concrete, Wood
● Urethane	Flexible, Impact & Vibration Resistant	Plastics, Thermoplastics, Foam Boards



# 10:1 MMA Methacrylate Structural Adhesives

UltraLok® 4XX Series 10:1 Ratio						
PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL420-1	5 Min MMA	50ML	3-7 min	10-15 min	3,000+ psi	<ul style="list-style-type: none"> <li>Bonds metals, plastics &amp; composites without surface prep</li> <li>Fast or slow cure options (3-24 min) to match your job</li> <li>Glass beads ensure strong, consistent joints</li> <li>Tough &amp; impact resistant for durable performance</li> <li>Tack-free surface for easier sanding &amp; painting</li> </ul>
UL420GB	5 Min MMA w/Glass Beads	250ML	3-7 min	10-15 min	3,000+ psi	
		500ML				
UL421GB	10 Min MMA w/Glass Beads	825ML	8-12 min	20-30 min	2,500+ psi	
UL422GB	20 Min MMA w/Glass Beads	5 GAL PAIL	17-24 min	35-45 min	3,200 psi	
		DRUM				

UltraLok® Specialty Series 10:1 Ratio						
PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL607	Clear MMA	50ML	6-9 min	14-18 min	81,000 - 86,000 psi	<ul style="list-style-type: none"> <li>Crystal clear toughened structural adhesive for bonding a variety of plastics and metal substrates</li> </ul>
UL3121	High-Elongation Toughened MMA	250ML	4-6 min	10-15 min	2,200+ psi	<ul style="list-style-type: none"> <li>Super high elongation rubber toughened 5 minute acrylic adhesive flexible to withstand expansion of large parts and different CTE</li> </ul>
		500ML				
UL4005	5 Min Toughened MMA	825ML	4-6 min	15-20 min	2,500+ psi	<ul style="list-style-type: none"> <li>4-6 minute gray acrylic adhesive formulated for bonding metals, including galvanized commonly used in sign fabrication for channel letter assembly or to replace spot welding</li> </ul>
UL8000	Galvanized Metal Bonding MMA	5 GAL PAIL	5-7 min	15-20 min	2,100 psi	<ul style="list-style-type: none"> <li>Quick 5-7 minute working time adhesive specifically meant for galvanized and other metal bonding</li> </ul>
		DRUM				

## UltraLok® 607

UltraLok UL607 is a crystal-clear, toughened structural adhesive designed for high-strength bonding of plastics, acrylics, polycarbonate, and metals. Ideal for sign, display, and electronics applications where a strong, invisible bond is critical.

Compare to **3M DP8405NS**  
**3M DP8710NS**  
**Loctite H5004**



## UltraLok® 420GB

UltraLok 420GB is a fast-setting, two-part structural methacrylate adhesive designed for high-strength bonding of metals, plastics, and composites. With built-in glass beads for uniform bondlines, it offers excellent durability, impact resistance, and minimal surface prep – ideal for fast-paced assembly and fabrication.

Compare to **ASI MP55420**  
**3M DP8405NS**  
**Loctite AA H8110**



# 1:1/2:1 MMA Methacrylate Structural Adhesives

## UltraLok® 3XX Series 1:1 Ratio

PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL300	5 Min MMA	50ML 200ML	3-6 min	10-15 min	4,000 psi	<ul style="list-style-type: none"> <li>• Strong, reliable bonds to plastics, fiberglass, composites, and metals</li> <li>• Fast or extended open times (2-32 min) to match application needs</li> <li>• High strength &amp; durability with tensile performance up to 4,000+ psi</li> <li>• Versatile applications from general-purpose repairs to structural bonding</li> <li>• Excellent for fabrication in signage, marine, automotive, and industrial assembly</li> </ul>
UL305	3 Min MMA	400ML	2-4 min	6-8 min	3,500 psi	
UL310	10 Min MMA	600ML SmartPak	8-12 min	25-30 min	4,000+ psi	
UL330	20 Min MMA	5 GAL PAIL DRUM	18-32 min	45-70 min	3,500 psi	

## UltraLok® Specialty Series 1:1 Ratio

PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL530	30 Min MMA	50ML 200ML	25-40 min	70-150 min	3,200 psi	<ul style="list-style-type: none"> <li>• Balanced working time (25-40 min) for large assemblies where strength, flexibility, and impact resistance are essential.</li> </ul>
UL560	60 Min MMA	400ML 600ML				
UL590	90 Min MMA	5 GAL PAIL DRUM	50-70 min	180-200 min	3,000 psi	<ul style="list-style-type: none"> <li>• Extended open time (60-75 min) gives installers more control and confidence when positioning large components.</li> </ul>
UL810*	Low Read-Through MMA	50ML 200ML	80-120 min	180-200 min	2,500 psi	<ul style="list-style-type: none"> <li>• Extra-long working time (80-120 min) and high gap-filling capacity make it ideal for the most complex, oversized assemblies.</li> </ul>
UL8110	Galvanized Metal Bonding MMA	400ML 600ML	8-12 min	15-20 min	4,000 psi	<ul style="list-style-type: none"> <li>• Fast 8-12 minute working time with no read-through, making it ideal for thin plastics, composites, and sign fabrication.</li> </ul>
UL8120	Galvanized Metal Bonding MMA	5 GAL PAIL DRUM	8-12 min	18-22 min	4,500 psi	<ul style="list-style-type: none"> <li>• Medium 8-12 minute working time adhesive specifically meant for galvanized and other metal bonding.</li> </ul>
			18-25 min	35-45 min	2,800 psi	<ul style="list-style-type: none"> <li>• Longer 18-25 minute working time adhesive specifically meant for galvanized and other metal bonding.</li> </ul>

\* Please Note: 2:1 Ratio

### UltraLok® 300

UL300 is a fast-curing, 5-minute two-part methacrylate "plastic welder" adhesive that delivers strong, flexible bonds to plastics, metals, and composites with minimal surface prep. Ideal for quick structural repairs and high-strength assemblies.

Compare to **ASI MP55300**  
**Loctite H3300**  
**3M DP805**



### UltraLok® 560

UL560 is a two-part structural plastic and metal bonding adhesive with an extended 50-65 minute working time, ideal for large assemblies and marine bonding. Delivers strong, durable bonds to metals, plastics, and composites with minimal surface prep.

Compare to **ASI MP55360**



# EPOXY Adhesives

UltraLok® 54XX Epoxy 1:1 Ratio						
PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL5405	5 Min Flowable Epoxy	50ML  200ML  400ML  600ML	5 min	20 min	1,850 psi	• General purpose 5 minute epoxy adhesive with super strong bonds to metals and various plastics.
UL5405NS	5 Min Non-Sag Epoxy		3-5 min	20 min	6,500 psi	• General purpose 5 minute Non Sag epoxy adhesive with super strong bonds to metals & various plastics. NS stands Non Sag epoxy.
UL5405FX	5 Min Flexible Epoxy		3-5 min	20 min	6,500 psi	• General purpose 5 minute flexibilized epoxy adhesive with super strong bonds to metals & various plastics. FX stands flexibilized, rubber toughened epoxy.
UL5410	10 Min Epoxy		8-12 min	60 min	6,500+ psi	• General purpose 10 minute epoxy adhesive with super strong bonds to metals and various plastics.
UL5420	25 Min Gel Epoxy		20-30 min	2 hrs	9,000+ psi	• General purpose 30 minute longer gelling epoxy with super strong bonds to metals & various plastics.
UL5425	30 Min Epoxy		20-30 min	4 hours	6,500+ psi	• General purpose 60 minute longer gelling epoxy adhesive with super strong bonds to metals & various plastics.
UL5030	30 Min Epoxy		25 min	3 hours	8,880 psi	• General purpose 5 minute epoxy adhesive with super strong bonds to metals and various plastics.
UL5430	30 Min Potting Compound		30 min	120 min	1,850 psi	• General purpose 30 minute potting compound with excellent thermal shock resistance and good electrical properties up to 60°C.
UL5460	60 Min Epoxy		50-60 min	2-4 hrs	6,600+ psi	• Two-part epoxy hybrid adhesive that cures at room temperature, ideal for industrial bonding, small potting, and laminating applications.
UL54750	60 Min Epoxy		120 min	4 hours	7,500+ psi	• General purpose 1 to 1.5 hour pot life epoxy adhesive with super strong bonds to metals & various plastics.
UL54190	90 Min Epoxy		90 min	6 hours	2,750 psi	• Long 90 minute working time adhesive with excellent shear and peel strength. Bonds a wide range of materials and has long-term durability.

## UltraLok® 5405NS

UL5405NS is a fast-setting, non-sag, two-part epoxy adhesive designed for strong bonding of metals, ceramics, and most plastics. With a 1:1 mix ratio and thixotropic paste consistency, it offers excellent chemical resistance and reliable performance in demanding environments.

Compare to **ASI MP5405**  
**3M DP100NS**  
**Loctite EA E-00NS**



## UltraLok® 5460

UL5460 is a two-part epoxy hybrid adhesive designed for industrial bonding, potting, and laminating where high strength, toughness, and electrical insulation are critical. It offers excellent chemical resistance and dimensional stability across a wide temperature range.

Compare to **ASI MP54460**  
**Loctite EA E-60NC**



# Polyurethane Adhesives

## UltraLok® Polyurethane Adhesives 1:1 Ratio

PRODUCT	DESCRIPTION	SIZES	WORKING TIME	FIXTURE TIME	TENSILE STRENGTH	FEATURES/BENEFITS
UL901	1 Min Urethane	50ML 200ML 400ML	40-60 sec	1-2 min	2,850 psi	• Ultra-fast setting, two-part polyurethane adhesive that delivers strong, sandable bonds to painted metals, plastics, composites, wood, glass, and concrete.
UL905	5 Min Urethane		4-6 min	12-15 min	2,300 psi	• Fast setting, two-part polyurethane adhesive that delivers strong, sandable bonds to painted metals, plastics, composites, wood, glass, and concrete.
UL919	15 Min Urethane		15-30 min	2-3 hours	2,200 psi	• Longer setting, two-part polyurethane adhesive that delivers strong, sandable bonds to painted metals, plastics, composites, wood, glass, and concrete.

### UltraLok® 901

Ultra-fast setting, two-part polyurethane adhesive that delivers strong, sandable bonds to painted metals, plastics, composites, wood, glass, and concrete.

Compare to **3M DP620NS**  
**Loctite 3364**



### UltraLok® 919

Longer setting, two-part polyurethane adhesive that delivers strong, sandable bonds to painted metals, plastics, composites, wood, glass, and concrete.

Compare to **3M DP610**



# SmartPAK XL & SmartPAK Mini

## Stick With the SmartPAK

SmartPak Adhesive is eco-friendly packaging using less than 1% plastic, cost-effective, and versatile. Perfect for various adhesive tasks, offering 38% more product with minimal environmental impact.

### WIDE PRODUCT RANGE:

Many of our adhesives can be packaged in SmartPak form allowing for almost any working time.

### REDUCES WASTE:

Less packaging material results in minimal environmental impact.

### COST-EFFECT:

Provides more adhesive for much lower cost.

### HIGHER EFFICIENCY:

Streamlined packaging leads to quicker production and less downtime.



## SmartPAK Mini



**600ML** **300ML PARTA+B**

**PARTS:** 2 Parts

**LENGTH:** 6 inches

**VOLUME:** 2 x 300ml = 600ml

**GUN:** SmartPak 600ml Gun

**APPLICATIONS:** Bonding: Aluminum, Steel, Most Plastics, Fiberglass

## SmartPAK XL



**1,200ML** **600ML PARTA+B**

**PARTS:** 2 Parts




















**LENGTH:** 12 inches

**VOLUME:** 2 x 600ml = 1,200ml















**GUN:** SmartPak 1200ml Gun

**APPLICATIONS:** Bonding: Aluminum, Steel, Most Plastics, Fiberglass








# UltraLok® Guns + Tips

UltraLok System	Cartridge Size(s)	Mix Ratio	Part Number	Gun Image	Mix Tip Name	Mix Tip Image
	50ml	1:1/2:1	CCH50G 1 1/2 1 Manual		Acrylic/Epoxies	
			CCH50G 1 1B Battery		MBQ 05 16L Standard	
		4:1	CCH50G 1 4 1 Manual		Urethanes	
			CON DS51 10 00 Manual		MAQ 05 16L Standard	
		10:1			MAQ 05 24L Standard	
	200ml	1:1/2:1	NEW 3 203 XSP Manual		Acrylic	
			NEW VR200A83 Pneumatic		MBQX 05 24L Standard	
	250ml	10:1	NEW VR210 XSP Manual		MGQ 08 24T Standard	
			NEW VR200A83 10 1 Pneumatic		X2 G8 7S Low Waste	
					MFOX 08 24T Standard	
					X2 FZ10 8S Low Waste	

# UltraLok® Guns + Tips

UltraLok System	Cartridge Size(s)	Mix Ratio	Part Number	Gun Image		Mix Tip Name	Mix Tip Image
	400ml	1:1/2:1	B26T400 Manual			Acrylic/Epoxies	
		4:1	B26T400X4 Manual			MGQ 08 24T Standard	
	500ml	10:1	B26T400X10 Manual			Urethanes	
						MGQ 08 24T Standard	
						Acrylic	
		600G SP Battery				MGQ 14 20T	
		1200G SP Battery					

# UltraLok® Guns + Tips

UltraLok System	Cartridge Size(s)	Mix Ratio	Part Number	Gun Image	Mix Tip Name	Mix Tip Image
	600ml	1:1/2:1	NEW 535XSP Manual		MGQ 08 20T	
			COX DB2C600 01 500 1US Battery			
			NEW 830A30 300X300 Pneumatic			
	825ml	10:1	COX DM2C1500 10 R25 001 Manual		MGQ 08 24T Standard	
			ALB E18T825 Battery			
			COX DP2C1500 10 525 301 Pneumatic			

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