



Adhesives and Sealants For the Sign Industry









PERFORMANCE / DURABILITY / RELIABILITY

- Bonding Thin Substrates
- Bonding Metals to Plastics
- Corrosion Prevention
- Weathertight / Dustproof Assemblies
- Strong / Permanent Assemblies
- Aesthetics
- Warranty Claims

EFFICIENCY / COSTS

- Fast Production Times
- Minimizing WIP
- Minimizing Inventory
- Double-Sided Tape Material Cost
- Welding
 - Prep Time
 - Grinding Time
 - Cleaning Time
- Welding Capital Equipment and Materials
- Scrap and Damaged Goods

- Extensive Product Portfolio: The right product for the application
- High Gap Fill Materials: Seal out the weather, relaxed design tolerances
- Eliminate Mechanical Fasteners: Eliminate drilling / tapping, galvanic corrosion, water leaks, panel bowing
- Excellent Weather Resistance: Long-term performance over life of sign
- **Products Supporting Health and Safety:** Reduced worker concerns, improved safety
- Engineering Support: Testing and development laboratories
- High Adhesion Sealants: Bonding with excellent long-term sealing

- Fast Curing 2-Component Products: Fixture time in minutes
- Universal Bonders Work on Many Materials:

Products work on range of plastics and metals with minimal preparation required

- Full Line of Pneumatic and Manual Dispensing Equipment for Operator Speed and Ease
- Highly Trained Field and Application Engineers:

Industry and technology competence including customer manufacturing line surveys

- Value Engineering Analysis: Lowest total cost
- Slow, Medium, Fast Curing Products: The right product for your process

Universal Structural Bonders



- FAST TURNAROUND
- GOOD ON VERY THIN METALS AND PLASTICS
- LOW BLOOM / FROST
- EXCELLENT WEATHER RESISTANCE



CHEMISTRY	PRODUCT NAME	ATTRIBUTES
HY	LOCTITE [®] HY 4090™	Instant Adhesive / Structural Combination (CA/Epoxy), General-Purpose, Excellent Environmental and Temperature Resistance, Good Gap Filling, Environmentally and Health & Safety Worker Responsible, Available In Small and Larger Packages, High Peel Strength.
НҮ	LOCTITE® HY 4070™	Instant Adhesive / Structural Combination (CA/Acrylic), Ultra Fast Curing, Great for Low Surface Energy Plastics, Small Package Allows Precise Application, Health & Safety and Environmentally Responsible, Good Gap Fill.
мма	LOCTITE [®] AA H8003 [™]	High Strength Plastic and Metal Bonder, Very High Strength on Aluminum, Sandable, Powder Coatable, Mechanically Tough, Fast Curing, Plastic Bonding, Excellent Weather Resistance.
мма	LOCTITE [®] AA H4710 [™]	Ultra-Fast Cure Time, Aluminum Bonder, Mechanically Tough, Low Shrinkage, Fast Curing, Non-sag, Gap Filling, Powder Coatable.
мма	LOCTITE [®] AA 3035™	Fast Cure Time, Polyolefin Plastic Bonder, No Primer Required, Low Surface Energy Plastics.
мма	LOCTITE® AA H5004™	Fast Setting, Tough, Clear Adhesive, Excellent for Metal to Plastic and Fillet Bonding. Excellent for Channel Letter Assembly and Bonding Clear Plastics.
SMP	TEROSON® MS 939™	Flexible Bonding, High Shear Strength, High Elongation, 1-Component Moisture Cure.
SMP	TEROSON® MS 9399™	Flexible Bonding, High Shear Strength, High Elongation, 2-Component Fast Cure.
SMP	TEROSON [®] MS 5510 [™]	Very Good Adhesion Yet Reworkable, 1-Component Moisture Cure, Very Good for Dissimilar Substrates.
SMP	TEROSON® MS 5555NA™	High Value, High Performance Single Component Sealant / Adhesive, 4 Times Stronger Adhesion than Silicones, Paintable, Excellent Weather Resistance.
SMP	TEROSON® MS 9380™	High Strength, Flexible Bonding and Sealing, Fast Curing.
PU	LOCTITE [®] UK U-09FL [™]	Flexible Adhesion, Medium Fixture Time, High Impact Strength.
EP	LOCTITE [®] EA E-05CL [™]	Fast Curing, High Strength, Clear, 5-Minute Work-Life.
СА	LOCTITE [®] 454 [™]	General-Purpose Instant Adhesive, Clear, Non-Sag Gel.
LCA	LOCTITE [®] AA 3106 [™] , AA 3525 [™] , AA 3494 [™]	Light Curing Acrylic Adhesive for Plastic-Plastic, Glass-Metal, Glass-Glass Respectively.
SI	TEROSON [®] SI 9160 [™]	General-Purpose Value Sealant, Moisture Cure RTV, Available in Several Colors.

General-Purpose Structural Adhesive for Limitless Design

- Faster fixture high strength of an instant adhesive / toughness of an epoxy / acrylic structural adhesive
- Multi-substrate performance
- Excellent gap filling ability
- High humidity resistance
- Health and safety / environmentally responsible; nonflammable, low odor

MAJOR SIGN APPLICATIONS							
METAL FRAME AND BOX ASSEMBLY	CHANNEL LETTER ASSEMBLY	CHANNEL LETTER FACING ASSEMBLY	FLAT CUT-OUT LETTER BONDING	WORK TIME	FIXTURE TIME	FULL CURE	COLOR
✓	\checkmark			3-5 minutes	180 seconds	7 days	Off-White
\checkmark	\checkmark		\checkmark	3-4 minutes	<1 minutes	7 days	Transparent-Cloudy / Pale Yellow
\checkmark	\checkmark			4-5 minutes	10-12 minutes	24 hours	Green
\checkmark	\checkmark		\checkmark	9 minutes	2-3 minutes on aluminum	72 hours	Grey
		\checkmark	\checkmark	7 minutes	<20 minutes on HDPE	72 hours	Off-White
	\checkmark	\checkmark	\checkmark	1.5 minutes	<3 minutes	24 hours	Clear
\checkmark	\checkmark		\checkmark	3-12 minutes	4 hours	7 days	White, Grey, Black
\checkmark	\checkmark		\checkmark	3-12 minutes	1.5-3 hours	7 days	White, Black
\checkmark	\checkmark		\checkmark	5-50 minutes	4 hours	7 days	White, Black, Clear, Grey
\checkmark	\checkmark		\checkmark	20 minutes	4 hours	24-72 hours	Black, White, Grey
\checkmark	\checkmark		\checkmark	4-10 minutes	4 hours	7 days	White, Grey, Black
\checkmark	\checkmark		\checkmark	10 minutes	120 minutes	5 days	Clear
	\checkmark	\checkmark		3-5 minutes	15 minutes	24 hours	Clear
	\checkmark	\checkmark	\checkmark	N/A	<10 seconds	24 hours	Clear
	\checkmark	\checkmark		Unlimited*	<5 seconds	<5 seconds	Clear, Clear, Light Straw
\checkmark	\checkmark	\checkmark		15 minutes	24 hours	72 hours	Black, Clear, White

Benefits of Adhesives / Sealants in Sign Construction / Installation

- Join Dissimilar Substrates
- Distribute Stresses Evenly
- Fill Large Gaps
- Seal and Bond
- Neat Appearance
- Reduce Labor Costs (welding vs. general labor)
- Prevent Galvanic Corrosion
- Absorb Energy
- Eliminate Weld Read-Through
- Aesthetics Looks Better

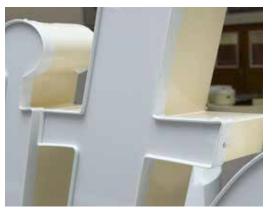
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Application Areas

METAL FRAME AND BOX ASSEMBLY



V CHANNEL LETTER FACING ASSEMBLY



V CHANNEL LETTER ASSEMBLY



V FLAT CUT-OUT LETTER BONDING



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