



LORD[®] Structural Adhesives for the Sign Industry

Selector Guide



chemical-concepts.com

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ENGINEERING YOUR SUCCESS.

LORD® Structural Adhesives offer advantages over welding and mechanical fastening. They bond dissimilar materials, provide improved appearance, insulate against galvanic corrosion and offer excellent environmental resistance. Adhesive bonding provides cost savings due to reduced labor costs and assembly time.

LORD® Signlok™ adhesives provide right-sized packaging to fit most jobs and eliminate waste, and have a long shelf life that reduces costs.

Metal Bonding Adhesives

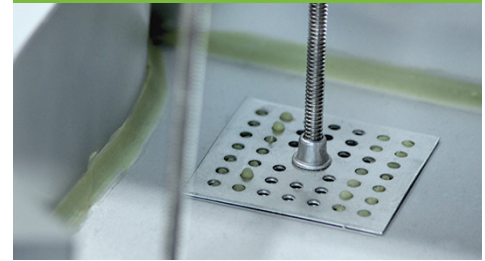
METAL FRAME ASSEMBLY



CHANNEL LETTER ASSEMBLY



OTHER USES



Product	Features	Applications	Technical Data							Accessories		
			Work Time	Handling Time	Full Cure	Mix Ratio	Color	Size	Part #	Dispensing Gun	Mixing Tip	Plunger
LORD Signlok 403 Fast	Right-Sized Packaging Powder Coating* Extended Shelf Life Glass Beads for Precision Bondline	Replace Welding and Mechanical Fastening Channel Letter Assembly Metal Box Frame Assembly	2-4 min	4-6 min	24 hr	2:1	Tan	210 mL	3031522	3029937 3029936	3001173	
LORD Signlok 406 Medium	UV & Corrosion Resistance for Outdoor Assemblies Minimal Surface Preparation	Corner Key Installation Bond and Seal in One Step Seal for Light Leaks	6-10 min	12-17 min	24 hr	2:1	Tan	210 mL	3031524	3029937 3029936	3001173	
LORD Signlok 810 Medium	Low Read-Through Powder Coating* Right-Sized Packaging Extended Shelf Life Glass Beads for Precision Bondline UV Resistant	ACM Panel Bonding Thin Gauge Material Bonding Glossy Material Bonding Flexible Material Bonding	8-12 min	20-25 min	24 hr	2:1	Dark Grey	210 mL	3031523	3029937 3029936	3001173	
LORD 403/19 Fast	Powder Coating* UV & Corrosion Resistance for Outdoor Assemblies	Replace Welding and Mechanical Fastening Channel Letter Assembly Metal Box Frame Assembly	2-4 min	4-6 min	24 hr	4:1	Tan	50 mL CX (404 mL)	3021003 3021004	3001112 3004487	3004476 3001173	3004479** N/A (4:1)
LORD 406/19 Medium	Minimal Surface Preparation	Corner Key Installation Bond and Seal in One Step Seal for Light Leaks	6-10 min	12-17 min	24 hr	4:1	Tan	50 mL 415 mL CX (404 mL)	3021024 3032029 3021011	3001112 3018302 3004487	3004476 3032007 3001173	3004479** N/A (4:1) N/A (4:1)
LORD 406/19GB Medium	Powder Coating* UV & Corrosion Resistance for Outdoor Assemblies Minimal Surface Preparation Glass Beads for Precision Bondline	Replace Welding and Mechanical Fastening Channel Letter Assembly Metal Box Frame Assembly Corner Key Installation Bond and Seal in One Step Seal for Light Leaks	6-10 min	12-17 min	24 hr	4:1	Tan	50 mL 415 mL CX (404 mL)	3021025 3032003 3031478	3001112 3018302 3004487	3004476 3032007 3001173	3004479** N/A (4:1) N/A (4:1)
LORD 201 Indefinite Open Time, Fast Cure	No-Mix Brush on Lower Viscosity Flowable	Laminating (Full Surface Coverage) Assembly of Large Surfaces & Surfaces with Tight Tolerances		12-16 min	24 hr	Per Application	Off-white	1/10 gal/ cart pail	3003489 3003493			
LORD 204 Indefinite Open Time, Fast Cure	No-Mix Trowel on High Viscosity Non-sag	Laminating (Full Surface Coverage) Metal Fabrication Assembly of Large Surfaces & Surfaces with Tight Tolerances		20-30 min	24 hr	Per Application	Off-white	1/10 gal/ cart	3003505			
LORD Accelerator 4	No-Mix Catalyst for LORD 201 & 204	Laminating with LORD 201 & 204				Per Application	Clear (Dries Crystalline)	1 qt 1 gal	3004033 3004032			
LORD 7610DTM Slow	Single-Component Easy to Use Bonds to Wide Variety of Materials UV Resistant	General Purpose Adhesive & Seam Sealer Seals Light Leaks Sealer for Channel Letter Cans Water Intrusion Barrier or Sealant	25-35 min	6-12 hr	1-5 days	1 Part	Bright White	1/10 gal/ cart	3029094	3023577	3015312	

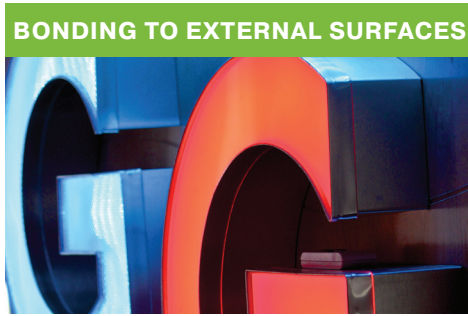
Technical Data reported at 70-77°F (21-25°C).

*Refer to complete instructions for Powder Coating after Bonding with LORD Acrylic Adhesives (TT3068).

**P/N 3004479 required for LORD 400 Series 50 mL cartridges.

Plastic Bonding Adhesives

For optically clear bonding, gap filling or bonding wood or other porous substrates, the LORD 7500 series offers tough, flexible adhesives in a variety of speeds. The LORD 7550 A/C is the perfect choice for bonding trimcap materials to polycarbonate faces.



Plastic Bonding Adhesives

Product	Features	Applications	Technical Data							Accessories		
			Work Time	Handling Time	Full Cure	Mix Ratio	Color	Size	Part #	Dispensing Gun	Mixing Tip	Plunger
LORD 7550 A/C Fast	Optically Clear Adhesive for Non-Structural Assemblies UV Resistant Self-leveling	Trimcap Letter Track Aesthetic Assemblies Potting, Encapsulation	3-5 min	1 hr	72 hr	1:1	Optically Clear	50 mL	3003953	3001112	3004476	3009588
Signlok 7550 Fast								210 mL	3031702	3029937 3029936	3001173	
LORD 7542 A/B Medium	Bonds plastics, FRP & SMC with Minimal Surface Prep Odorless Non-flammable	Bonding Plastics Bonding Foam, Foam Board, Natural Materials Cross Bonding* Metal to Engineered Plastics for Larger, Outdoor Assemblies subject to Thermal Expansion	4-7 min	1-2 hr	24 hr	1:1	Brown	50 mL	3003884	3001112	3004476	3009588
LORD 7556 A/C Medium	Translucent Adhesive for Wide Range of Plastics, Polycarbonate and Prefinished Metals Non-sag Fast Set Non-yellowing	Aesthetic Assemblies Decorative Parts	4-6 min @ 90°F (32°C)	1.5-2.3 hr @ 73°F (23°C)	24 hr	1:1	Translucent	400 mL	3018335	3004277 3027081	3001178	

Technical Data reported at 70-77°F (21-25°C). *Refer to cross bonding chart for specific materials.

Cross Bonding Adhesives

Product	Features	Applications	Technical Data							Accessories		
			Work Time	Handling Time	Full Cure	Mix Ratio	Color	Size	Part #	Dispensing Gun	Mixing Tip	Plunger
LORD Signlok 810 Medium	Flexible UV Resistant Bonds to Bare Metal	Cross Bonding* Metal to Engineered Plastics for Larger, Outdoor Assemblies subject to Thermal Expansion	8-12 min	20-25 min	24 hr	2:1	Dark Grey	210 mL	3031523	3029937	3001173	
LORD 7542 A/B Medium	Bonds plastics, FRP & SMC with Minimal Surface Prep Odorless Non-flammable	Cross Bonding* Prefinished Metals to Engineered Plastics for Larger, Outdoor Assemblies	4-7 min	1-2 hr	24 hr	1:1	Brown	50 mL	3003884	3001112	3004476	3009588
LORD 7610DTM Slow	Single-Component Easy to Use Bonds to Wide Variety of Materials UV Resistant	General Purpose Adhesive & Seam Sealer Seals Light Leaks Sealer for Channel Letter Cans Water Intrusion Barrier or Sealant	25-35 min	6-12 hr	1-5 days	1 Part	Bright White	1/10 gal/cart	3029094	3023577	3015312	

Technical Data reported at 70-77°F (21-25°C). *Refer to cross bonding chart for specific materials.

Specialty Adhesives

Product	Features	Applications	Technical Data							Accessories		
			Work Time	Handling Time	Full Cure	Mix Ratio	Color	Size	Part #	Dispensing Gun	Mixing Tip	Plunger
LORD 7610DTM Slow	Single-Component Paintable Easy to Use Bonds to Wide Variety of Materials UV Resistant	General Purpose Adhesive & Seam Sealer Seals Light Leaks Sealer for Channel Letter Cans Water Intrusion Barrier or Sealant	25-35 min	6-12 hr	1-5 days	1 Part	Bright White	1/10 gal/cart	3029094	3023577	3015312	
LORD 7650 Slow	Single-Component High Tack Low Viscosity	Laminating Foam & Paper Board	15-30 min	24 hr	1-5 days	1 Part	Honey	1/2 pt 1 gal	3003977 3003978			
LORD 320/322 Slow	Rubber Toughened Heat Resistant High Strength	Studs Bolting Concrete Potting Gap Filling	20-40 min	2-4 hr	24 hr	1:1	Grey	50 mL	3003632	3001112	3004476	3009588
LORD 360 Fast	Fast Cure at Room Temperature Non-Sag on Vertical Surfaces	Studs Bolting to Concrete & Foam	2-4 min	5-10 min	24 hr	1:1	Tan	50 mL	3003643	3001112	3004476	3009588

Technical Data reported at 70-77°F (21-25°C).

Adhesive Selection

Use the chart below to choose the proper adhesive for sign bonding applications. For more detailed information on these adhesives and surface preparation, call the Parker Lord Customer Support Center.

	Trade Name ‡	Surface Preparation	Aluminum/Steel*	Prefinished Metal & Aluminum Composite Material (ACM)	Polycarbonate*	Acrylic*	Urethane Foam	PVC Foam Board	Ceramic/Stone	Wood
Aluminum/Steel*		Solvent wipe with isopropyl alcohol	Signlok 4xx Signlok 810 4xx/19 2xx	Signlok 4xx Signlok 810 4xx/19	Contact Parker Lord	Contact Parker Lord	7610DTM** 7542**	Signlok 4XX Signlok 810 4xx/19	320/322 †	7610DTM 320/322 †
Stainless Steel		Solvent wipe with isopropyl alcohol, mechanically abrade with 80-grit paper or grinder, wipe with IPA to remove sanding dust	Signlok 4xx Signlok 810 4xx/19 2xx	Signlok 4xx Signlok 810 4xx/19	Contact Parker Lord	Contact Parker Lord	7610DTM** 7542**	Signlok 4xx Signlok 810 4xx/19	320/322 †	7610DTM 320/322 †
Prefinished Metal & Aluminum Composite Material (ACM)	AlumaCorr™ NuAlum™ Poly-Metal™ Alumalite™ DiBond® Econolite™ MAXX™ Alucobond® Anodized Alucobond®	Factory painted metal or ACM panels: solvent wipe Shop painted or other finishes: remove by sanding prior to bonding	Signlok 4xx Signlok 810 4xx/19	Signlok 810 Signlok 4xx 4xx/19	Signlok 4xx 4xx/19 7542 7610DTM	7542 7610DTM ⁿ	7542 7650 7610DTM	Signlok 4xx Signlok 810 4xx/19 7542 7650 7610DTM	320/322 †	7542 7650 7610DTM
Polycarbonate*	Lexan® Tuffak®	Solvent wipe with isopropyl alcohol	Contact LORD	7542 7610DTM	Signlok 4xx 4xx/19 7542 7610DTM	7542 7610DTM	7542 7650 7610DTM	7542 7650 7610DTM	7610DTM ⁿ	7542 7650 7610DTM
Acrylic*	Acrylite® Acrysteel® IGP Duraplex® Optix®SG Implex® Plexiglas®G	Scuff with scuff pad or 120-grit paper, solvent wipe with isopropyl alcohol	Contact LORD	7542 7610DTM 7650	7542 7610DTM 7550 ⁿ Signlok 7550 ⁿ 7556	7542 7610DTM 7550 ⁿ Signlok 7550 ⁿ	7542 7610DTM 7550 ⁿ Signlok 7550 ⁿ 7556	7542 7650 7610DTM	7610DTM ⁿ	7542 7650 7610DTM
TrimCap	Jewelite™ SignATrim™	Scuff with scuff pad or 120-grit paper, solvent wipe with isopropyl alcohol		7550 ⁿ Signlok 7550 ⁿ 7542 7556	7550 ⁿ Signlok 7550 ⁿ 7556	7550 ⁿ Signlok 7550 ⁿ 7556	7542 7550 ⁿ Signlok 7550 ⁿ 7610DTM 7556	7542 7650 7610DTM		7542 7550 ⁿ Signlok 7550 ⁿ 7556
Urethane Foam	Precision Board Last-A-Foam™ Sign Foam 3® Design Board® CORAFoam®	Blow off surface with clean air or wipe with clean dry cloth	7650 7610DTM 7542	7542 7650 7610DTM	7542 7650 7610DTM	7542 7650 7610DTM	7542 7610DTM	7542 7650 7610DTM	7542 7610DTM	7542 7650 7610DTM
PVC Foam Board	Komatex® Sintra®	Scuff with scuff pad or 120-grit paper, solvent wipe with isopropyl alcohol	Signlok 4xx Signlok 810 4xx/19	Signlok 4xx Signlok 810 4xx/19 7542 7650 7610DTM	7542 7650 7610DTM	7452 7650 7610DTM	7542 7610DTM	Signlok 4xx 4xx/19 7542 7650 7610DTM	7542 7610DTM ⁿ	7542 7650 7610DTM
Paper/Foam Board	Foam-X® Recovery Foam-Cor®	Wipe with clean dry cloth	7542** 7610DTM 7650**	7542 7650	7542 7610DTM	7542	7542 7610DTM	7542 7610DTM	7542 7610DTM	77542 7610DTM
PETG Sheet	Spectar™ PETG	Solvent wipe with isopropyl alcohol	7542** Signlok 4xx Signlok 810 4xx/19	7542** Signlok 4xx Signlok 810 4xx/19	7542 7610DTM	7542	7542 7610DTM	7542 7610DTM	7542 7610DTM	7542 7610DTM
Polystyrene Foam Board	Gatorfoam® Gatorblanks® Gatorplast® Ultra	Wipe with clean dry cloth Solvent wipe with isopropyl alcohol	Signlok 4xx (N/A Gatorblanks®) Signlok 810 (N/A Gatorblanks®) 4xx/19 (N/A Gatorblanks®) 7542** 7610DTM 7650**	Signlok 4xx Signlok 810 4xx/19 7542 7610DTM 7650	7542 7550 ⁿ Signlok 7550 ⁿ 7556	7542 7610DTM 7650	7542 7610DTM 7650	7542 7610DTM	7542 7610DTM	7542 7610DTM
Vinyl Laminate	White-Wood® Maxx-Board®	Wipe with clean dry cloth, scuff Solvent wipe with isopropyl alcohol	Signlok 4xx Signlok 810 4xx/19 7542** 7610DTM 7650	Signlok 4xx Signlok 810 4xx/19 7542** 7610DTM 7650	7542 7650	7542	7542 7610DTM 7650	7542 7610DTM	7542 7610DTM	7542 7610DTM
Wood		Wipe with clean dry cloth	320/322 †	7542 320/322 † 7650	7542 7650 7610DTM	7542 7650 7610DTM	7542 7610DTM	7542 7650 7610DTM	7542 7610DTM ⁿ 320/322	7542 320/322 7650 7610DTM ⁿ
Ceramic/Stone		Porous: Wipe with clean dry cloth Non-porous (Smooth/polished): LORD AP-134 Adhesion Enhancer/ Surface Modifier required	320/322 †	320/322 †	7542 7610DTM ⁿ	7542 7610DTM ⁿ	7542 7610DTM ⁿ	7610DTM ⁿ	320/322	7542 7610DTM ⁿ
Cured Concrete		Wipe with clean dry cloth	7610DTM 320/322 †	320/322 † 360 7610DTM	7542 7610DTM	7542 7610DTM	N/A	N/A	320/322	7610DTM 320/322
Glass**		LORD AP-134 Adhesion Enhancer/Surface Modifier required	Signlok 4xx 4xx/19	Signlok 4xx 4xx/19 7542	N/A	7542 7610DTM	7610DTM	7610DTM	7542 7610DTM	7542 7610DTM

xx Represents numbers for the family of adhesive to be utilized. Contact Parker Lord Customer Support Center, 877 275 5673.

‡ All substrate Trade Names are trademarks or registered trademarks of the substrate supplier.

* Coefficient of thermal expansion is a major consideration when cross-bonding these substrates. Acrylic adhesives should not be used to attach large thermoplastic parts due to the differences in thermal expansion.

** Additional surface preparation recommended: Metals should be painted or primed. Glass, Ceramic and Stone should be primed with LORD AP-134 Adhesion Enhancer/Surface Modifier to promote adhesion, 120 minutes to hydrolyze.

† Prepare metal by scuffing/abrading followed by a solvent wipe.

ⁿ For non-structural bonding (assemblies where adhesive is used for aesthetic attachment in minimum stress areas).

Dispensing Equipment



210 mL CARTRIDGE DISPENSING GUNS

Manual Dispensing Gun: 3029937

Pneumatic Dispensing Gun: 3029936

Mixing Tip: 3001173



MANUAL 50 mL CARTRIDGE DISPENSING GUNS

Manual Dispensing Gun: 3001112

Plunger (2:1): 3009588 (one plunger ships with gun)

Plunger (4:1): 3004479 (required for LORD 400 Series 50 mL cartridges)

Mixing Tip: 3004476



415 mL CARTRIDGE DISPENSING GUNS

Manual Dispensing Gun: 3018302

Pneumatic Dispensing Gun: 3032023

Mixing Tip: 3032007



MANUAL CX (404 mL) CARTRIDGE DISPENSING GUNS

Manual Dispensing Gun (4:1): 3004487

Mixing Tip: 3001173



LORD 7610DTM CARTRIDGE DISPENSING GUN

Manual Caulk Dispensing Gun: 3018079

Nozzle: 3015312



NO-MIX ADHESIVES

No-mix adhesives—brush or trowel resin and accelerator onto separate surfaces. Mate when ready for fast set.



LORD AP-134 ADHESION ENHANCER/SURFACE MODIFIER

4 oz Bottle: 3004048

Gallon: 3004049

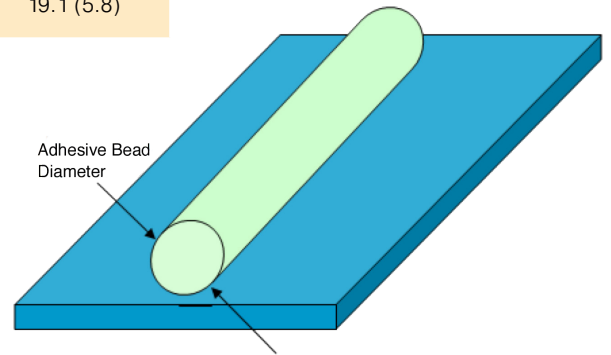
Estimating Adhesive Coverage

Apply the adhesive to the part to ensure complete adhesive coverage to the bond area. The rule of thumb is to dispense a bead with a diameter about 1/6th to 1/4th the width of the bond joint. For example, if the bond joint is 1" wide, the bead diameter should be approximately 0.17".

Linear Feet (m) Bead Diameter Coverage in Cartridge:

Use the table below to determine the length of adhesive bead that can be obtained from a cartridge of adhesive.

		LINEAR FEET (m) OF BEAD IN CARTRIDGE			
CARTRIDGE VOLUME		50 mL	210 mL	400 mL	415 mL
BEAD DIAMETER	1/8 inch (3 mm)	20.7 (6.3)	86.6 (26.39)	165.5 (50.4)	171.5 (52.27)
	1/4 inch (6 mm)	5.1 (1.55)	21.7 (6.61)	41.4 (12.6)	43 (13.1)
	3/8 inch (9.5 mm)	2.3 (0.7)	9.7 (2.95)	18.41 (5.6)	19.1 (5.8)



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SPECIAL THANKS TO:



CAUTIONARY INFORMATION

Before using this or any Parker Lord product, refer to the Technical Data Sheet, Safety Data Sheet (SDS) and label for safe use and handling instructions. For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use. **Talk to your sign materials distributor, contact us at Parker.com/APS or call 877 275 5673.**