

# **PLEXUS**® Structural Bonding Solutions for Trailer Manufacturers



## ***The Problem: Mechanical Fasteners***

- Create potential leak paths
- May result in stress cracking leading to shortened vehicle life
- May cause water intrusion resulting in shortened life of refrigerated units
- Are unable to join lightweight composites to metal frame
- May cause galvanic corrosion with joined aluminum and steel components

## ***The Solution: Plexus® Adhesives***

- Eliminate exterior holes and potential water intrusion by bonding and sealing
- Reduce total cost of assembly. Easy to use, fast curing adhesives that cross bond multiple substrates with no/low surface preparation
- Create non-conductive high strength bonds
- Extend life of body structure by offering superior toughness, fatigue resistance and uniform stress distribution.

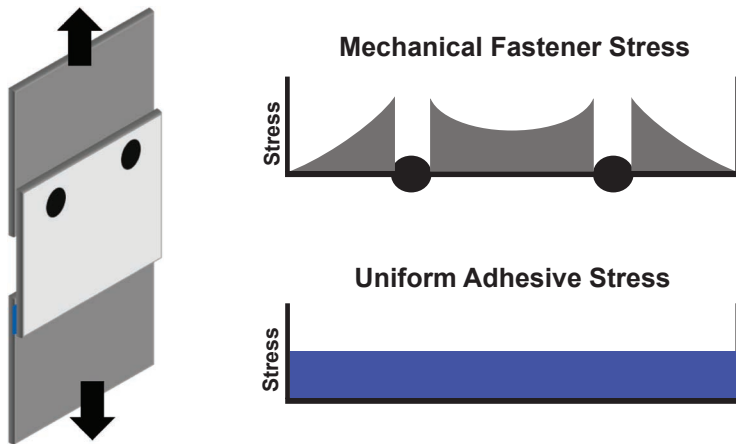
*Contact us to conduct an assembly line audit to find out if Plexus® is right for you!*  
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## Structural Bonding Solutions for Trailer Manufacturers

Product	Description	Mixed color	Mix ratio (by volume)	Working time (mins)	Tensile strength (psi)	Tensile elongation (%)													
							Aluminum	Coil Coated	Anodized Aluminum	E-Coat	Cold Rolled Steel	HDG	EZG	Galvanneal	Powder Coated	Stainless Steel	FRP		
MA8110 GB	Bond E-Tracks, walls to rails and reinforcements	Gray	1:1	8 - 12	3,285 (22.7)	25 - 45	++	++	++	++	++	++	++	++	++	++	++	++	++
MA8120 GB	Bond E-Tracks, walls to rails and reinforcements	Gray	1:1	18 - 22	2,907 (20.5)	30 - 60	++	++	++	++	++	++	++	++	++	++	++	++	
MA205HV	Composite shiplap bonding, aluminum weld replacement	Green	10:1	3 - 5	1,980 (13.7)	15 - 30	++	++	++	++	++	-	-	+	++	++	++		
MA830	Composite shiplap bonding, aluminum weld replacement	Gray	10:1	4 - 6	2,620 (18.0)	10 - 20	++	++	++	++	++	-	-	+	++	+	++		
MA832	Aluminum rail to wall bonding	Gray	10:1	12 - 14	2,790 (19.2)	20 - 40	++	++	++	++	++	-	-	+	++	+	++		
MA420	All purpose toughened adhesive	Blue	10:1	4 - 6	2,430 (16.8)	20 - 40	+	++	+	++	++	-	-	-	++	++	++		
MA320	Excellent low temp impact, white UV stable	White	10:1	8 - 12	1,800 (12.4)	30 - 60	+	++	+	++	+	-	-	-	++	+	++		

++ Excellent adhesion with no to little surface preparation. + Good adhesion with some surface preparation. - Not recommended. \* Use PC120 Cleaner Conditioner for optimum long term environmental durability

### Improved durability with uniform stress distribution



### Improved structure strengths with tougher materials

