

PLEXUS® Structural Bonding Solutions for Trailer Manufacturers



chemical-concepts.com
800.220.1966
410 Pike Road • Huntingdon Valley, PA 19006

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.

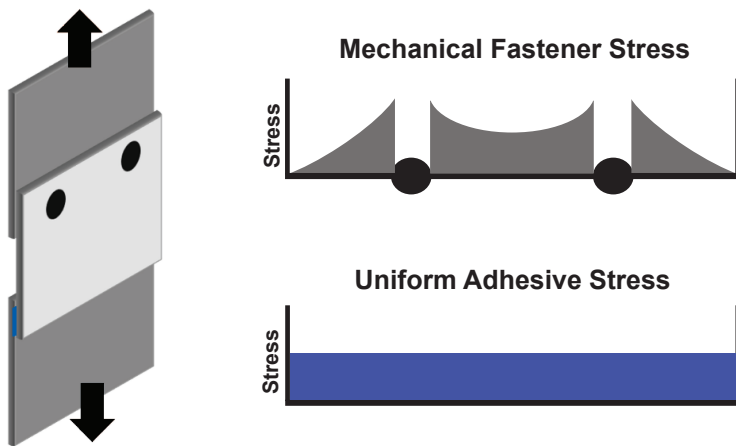
Contact us to conduct an assembly line audit to find out if Plexus® is right for you!
cs@itwpp.com

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	Bond E-Tracks, walls to rails and reinforcements	Gray	1:1	8 - 12	3,350	40 - 70	++	++	++	++	++	++	++	++	++	++	++	++	++
MA8120	Bond E-Tracks, walls to rails and reinforcements	Gray	1:1	18 - 22	2,750	50 - 80	++	++	++	++	++	++	++	++	++	++	++	++	
MA205HV	Composite shiplap bonding, aluminum weld replacement	Green	10:1	3 - 5	2,250	20 - 50	++	++	++	++	++	-	-	+	++	++	++		
MA830	Composite shiplap bonding, aluminum weld replacement	Gray	10:1	4 - 6	3,500	30 - 60	++	++	++	++	++	-	-	+	++	+	++		
MA832	Aluminum rail to wall bonding	Gray	10:1	12 - 16	2,850	30 - 60	++	++	++	++	++	-	-	+	++	+	++		
MA420	All purpose toughened adhesive	Blue	10:1	4 - 6	2,850	30 - 50	+	++	+	++	++	-	-	-	++	++	++		
MA320	Excellent low temp impact, white UV stable	White	10:1	8 - 12	1,950	60 - 100	+	++	+	++	+	-	-	-	++	+	++		

++ 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

