

The Problem: Mechanical Fasteners

- Create potential leak paths
- May result in stress cracking leading to shortened vehicle life
- Require longer assembly time

The Solution: Plexus® Adhesives

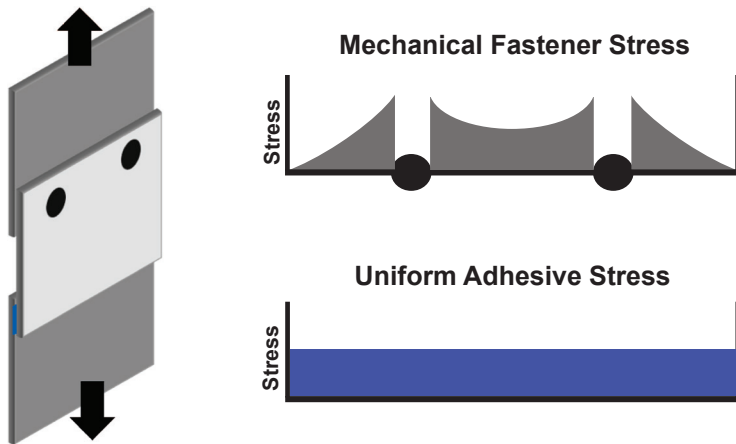
- Mitigate potential water intrusions
- Extend life of structure by offering superior fatigue resistance and uniform stress distribution
- Reduce total cost of assembly with fast dispensing and no/low surface preparation
- Simplify manufacturing - join and seal in one step

Structural Bonding Solutions for Rail Manufacturers

Product	Description	Mixed color	Mix ratio by volume	Working time, mins	Tensile strength, psi (MPa)	Tensile elongation, %													
							Aluminum	Coil Coated	Anodized Aluminum	E-Coat	Cold Rolled Steel	HDG	EZG	Galvanneal	Powder Coated	Stainless Steel	FRP		
MA8110 GB	Next generation primerless multimaterial adhesive	Gray	1:1	8 - 12	3,285 (22.7)	25 - 45	++	++	++	++	++	++	++	++	++	++	++	++	++
MA8120 GB	Next generation primerless multimaterial adhesive	Gray	1:1	18 - 22	2,907 (20.5)	30 - 60	++	++	++	++	++	++	++	++	++	++	++	++	
MA205HV	Fastest primerless to metal adhesive	Green	10:1	3 - 5	1,980(13.7)	15 - 30	++	++	++	++	++	-	-	+	++	++	++		
MA830	Primerless to metal adhesive	Gray	10:1	4 - 6	2,620 (18.0)	10 - 20	++	++	++	++	++	-	-	+	++	+	++		
MA832	Primerless to metal adhesive - medium open time	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

