PLEXUS Structural Bonding Solutions for Specialty Vehicles



The Problem: Mechanical Fasteners

- · Create potential leak paths
- May result in stress cracking leading to shortened vehicle life
- Require longer assembly time
- Require thicker gauge metals to ensure enough energy absorption in crash events

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

The Solution: Plexus[®] Adhesives

- Eliminate exterior holes by bonding and sealing
- Extend the life of the body structure with high toughness and superior fatigue resistance
- Reduce total cost of assembly with easy to use, fast curing Plexus[®] adhesives that can cross bond multiple substrates with no/low surface perpetration
- Distribute stress with high strength and high elongation adhesives

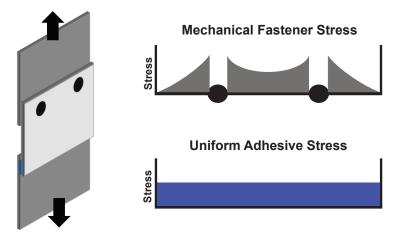


Structural Bonding Solutions for Specialty Vehicles

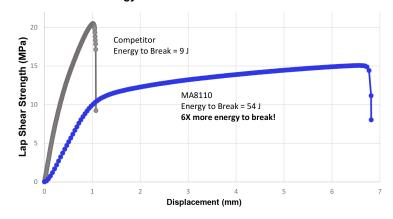
Product	Description	Mixed color	Mix ratio (by	Working time	Tensile strength	Tensile elongation		Suin Star	Cose	oiled r	, 		 6 a		and a contraction of the contrac	Co Solution Solution	Loo Charles
		0101	volume)	(mins)	(psi)	(%)	Ŕ	ؿ / ^ڏ	× / +	~/4i	්/ ගි		~ / Ŵ	ୀ / ତି	~/ q ^c	\$ / 5 ⁸	E
MA8110	Next-generation primerless multimaterial adhesive	Gray	1:1	8 - 12	3,350	40 - 70	++	++	++	++	++	++	++	++	++	++	++
MA8120	Next-generation primerless multimaterial adhesive	Gray	1:1	18 - 22	2,750	50 - 80	++	++	++	++	++	++	++	++	++	++	++
MA205HV	Fastest primerless to metal adhesive	Green	10:1	3 - 5	2,250	20 - 50	++	++	++	++	++	-	-	+	++	++	++
MA830	Primerless to metal adhesive	Gray	10:1	4 - 6	3,500	30 - 60	++	++	++	++	++	-	-	+	++	+*	++
MA832	Primerless to metal adhesive - medium open time	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



Energy to Break on Cold Rolled Steel

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