

INDUSTRIAL ADHESIVES & TAPES

Product Guide for Signage Bonding Solutions



Benefit from our experience
visit mpi-matco.com

Outperform the competition with signage designs that defy gravity using MPI Matco bonding and assembly solutions.

Combine dissimilar materials with no unsightly marks.

Our industrial adhesives and tapes help speed up the fabrication process and easily conform to curved surfaces. They quickly create strong bonds and can withstand changing weather conditions and humidity.



Application Details

Things to consider when choosing adhesives and tapes for your product and process.

Assembly	<ul style="list-style-type: none"> - What type of assembly is required? Panel to Frame/ Stiffener to Panel, Small Joint Assembly, Large Surface Lamination, Mounting and Trim Attachment, Gasket Attachment, Sealing, Potting and Encapsulating - What are the overall performance needs of the assembly (flexibility, high peel strength, etc.)?
Substrate	<ul style="list-style-type: none"> - What materials are being bonded together? Consider the surface and condition texture of each material.
Process	<ul style="list-style-type: none"> - What is the current assembly and manufacturing process? - Does the solution need to fit into the current process/equipment or can the process/ equipment change? - What are the various process steps and how quickly will the assembly be moved to each step? - At any time, might the assembly bond need to be repositioned? If so, why and when? Are there any environmental, regulatory or workplace safety restrictions?
End-Use	<ul style="list-style-type: none"> - How and where is the final product being used? - Will the assembly be exposed to harsh environmental conditions (UV, chemicals, high humidity, very high or low temperatures, etc.)?
Cost	<ul style="list-style-type: none"> - Where can improvements be made in the assembly process (labour, reduction of process steps, materials, workflow, etc.)?

Customer Priorities	SUGGESTED PRODUCT GROUP				
	Acrylic Core	DC Thin Tapes	DC Foam Tapes	Adhesive Sealants	Structural Adhesives
Dealing with extreme weather conditions	***	*	**	***	***
Durability of product	***	**	*	***	***
Ease of application	***	***	***	*	*
Speed of application	***	***	***	**	*
Joining different/dissimilar materials	***	*	***	***	***
Cleanliness of application	***	***	***	*	*
Sealing and bonding in one stage	***	*	*	***	**
Reducing visible fixings and unappealing aesthetics	***	***	***	***	***
Gap filling	***	*	***	***	**
Short/quick handling strength time	***	***	***	**	*
Using difficult to bond materials	***	***	**	***	**
Reducing water leakage from external exposure	***	*	*	***	**
Dealing with expansion and contraction of sign panel	***	*	**	***	***
Reducing noisy production	***	***	**	***	**
Bonding to powder-coated surfaces	***	**	**	***	***
Reducing the thickness of materials	**	***	*	**	***
Using high load bearing / heavy materials	***	*	**	***	***
Having a minimal bond line	**	***	**	*	***
Handling dynamic loads e.g. wind	***	*	**	***	***

*** Best ** Better * Good

THE FOLLOWING PRODUCTS ARE THE MOST WIDELY USED IN THE SIGNAGE INDUSTRY

PRESSURE SENSITIVE ADHESIVES		
Product	Colour	Ideal for
704X	Gray / White	Bonding to most materials including engineered plastics and metals
706X	Black	Bonding to powder coated materials
707X	Black	Low temperature application (down to 0 degrees)
707X	Black	Pre-powder coat bonding
1932	White / Black	Holding while surfaces are being bonded. Will bond to most surfaces
707X	Black	Applications where high temperature resistance is required
RW294	Clear	Neat, quick, and lightweight applications (Use with ATG Dispenser)
2900	Clear	Lightweight general purpose indoor applications
103	Beige	General purpose masking

ADHESIVES & SEALANTS		
Product	Colour	Ideal for
SAF Ultimate	Tan	Applications where a firmer adhesive is needed with excellent non-sag and high strength
SAF Ultimate	Tan	Most applications, including lightbox bonding, where a fast-skin time and excellent adhesion is needed
B1023	Clear	Applications where a clear bond line is desired
B1023	Clear	Applications where a clear, bubble free bond line is needed
Black Mamba FHG	White / Gray / Black	Fast, non yellowing bonding most plastics, glass painted or primed metal surfaces
Black Mamba FHG	White / Gray / Black	Applications where a high viscosity and good adhesion is needed. Adheres to many surfaces including powder coat paints and most plastics