

Solutions for your assembly challenges.

3M Industrial Adhesives and Tapes

Assembly Solutions Guide

What can 3M[™] Adhesives and Tapes do for your product and process?

Build strong, durable products:

• From repositionable to permanent, 3M has an adhesive or tape that can be readily matched to the substrate and stress characteristics needed in the joint.

Improve appearance and aesthetics:

- 3M adhesives and tapes are generally hidden between the bonded substrates, offering nearly invisible fastening.
- Surfaces stay smooth and clean for a more attractive appearance and less surface refinishing.

Lower production and material costs:

- Reduce process steps such as weld grinding and sealing individual penetrations from screws, nuts and bolts.
- Use thinner, lighter or less expensive materials that cannot be welded or fastened traditionally.
- Potentially lower capital investment. Many adhesives and tapes do not require major capital to use.
- Manage labor costs. Many tape and adhesive technologies require little operator training.

Build products with a continuous bond line:

- Adhesives and tapes uniformly distribute stress along the entire joint. Nuts, bolts and other fasteners concentrate stress at a point which can decrease physical properties of the substrates being assembled.
- Bond and seal simultaneously. Many 3M adhesives and tapes will provide a strong bond, but are also an effective seal against dirt, dust, water and other environmental conditions.
- Good fatigue resistance. If your parts are subject to vibration or other movement, the viscoelastic nature of 3M adhesives and tapes will impart flexibility to a joint or bonded area.

Wider material selection for assemblies:

- Lighter and thinner materials can be used. Welding and fastening weaken substrates and require a minimum thickness to retain integrity.
- Bond dissimilar materials. 3M adhesives and tapes bond to a wide range of substrates from metals, wood, glass, plastics and ceramics. This includes "hard to bond," low surface energy materials.
- Prevent galvanic corrosion. 3M adhesives and tapes can provide a film barrier to reduce or prevent bimetallic corrosion that can occur when joining to different types of metals.



With uniform stress distribution of adhesives and tapes, lighter, thinner materials can be used without concerns about distortion, splitting, or crazing at the mechanically fastened site. Elimination of holes in metal also reduces the chances for rust and corrosion.

3M[™] Adhesives and Tapes Product Family



Considerations when selecting 3M[™] Adhesives and Tapes for your product and process.

Assembly

What type of assembly is required? (Refer to 6 common assembly types in the right hand column.)

What are the overall performance needs of the assembly (flexibility, high peel strength, etc.)?

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Substrate

What are the materials that are being bonded together? (Refer to the substrate selectors for each assembly type on pages 4-15.)

Consider the surface condition texture of each material.

Process

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

How and where is the final product used?

Will the assembly be exposed to harsh environmental conditions (UV, chemicals, high humidity, very high or low temperatures, etc.)?

Cost

Where can improvements be made in the assembly process (labor, reduction of process steps, materials, workflow, etc.)?





What are Panel to Frame Assemblies? What are Stiffener to Panel Assemblies?



Panels are used in multiple markets, such as transportation, metalworking and construction.

Panel to Frame: Decorative or load bearing panel that is applied to rigid frame or support. Examples include trailer panels, elevator walls and sign boxes.

Stiffener to Panel: Stiffeners are applied to panels to give extra support and rigidity. **Examples include trailer wall panels, traffic signs and large metal enclosures.**

Possible Adhesive or Tape Requirements:

- Dead load holding strength
- Flexibility for dynamic loads and thermal expansion mismatch
- Fill a gap or variation in fit from end to end
- Provide a water seal

Best 3M Solutions for Panel to Frame/Stiffener to Panel Assemblies



3M[™] VHB[™] Tapes

High-strength bonding tapes are a proven alternative to screws, rivets, welds and other mechanical fasteners. 3M[™] VHB[™] Tape offers instant strength, a high ultimate bond and seals simultaneously. 3M[™] VHB[™] Tape's viscoelasticity allows relative movement of parts for thermal expansion/contraction. Best for flat to flat applications with a consistent bondline thickness.



Scotch-Weld[™] Structural Adhesives

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Best suited for thinner bondlines, irregular shapes and textured surfaces where load-bearing strength is needed. Provides the highest load-bearing strength and environmental resistance.



3M[™] Adhesive Sealants

Acrylic, polyurethane, nitrile and hybrid are one component adhesive technologies with outstanding sealing properties. These products are capable of filling larger and irregular gaps including rough substrates. Highly flexible formulations allow for relative movement for thermal expansion/contraction.



■ 3M[™] Reclosable Fasteners

3M[™] Dual Lock[™] and 3M[™] Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These products are ideal to allow access for servicing or replacement of a panel. Generally backed with 3M[™] VHB[™] Tape or other 3M adhesive technologies.

Performance Factors for Panel to Frame/Stiffener to Panel Assemblies

All 3M technologies in the table below are commonly used in panel applications. Use the table below as a relative comparison of product performance.

Attribute	3M [™] VHB [™] Tapes	3M [™] Scotch-Weld™ Structural Adhesives	3M [™] Adhesive Sealants	3M [™] Reclosable Fasteners
Number of Steps to Apply and Ease of Application	000	000	00	00
Rate of Strength Build	000	••	Φ	000
Flexibility and Joint Expansion	000	Φ	000	000
Holding Power	θ	000	00	Φ
Repair/Removal After Cure	000	θ	00	000

3M Industrial Adhesives and Tapes







This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Small Joint Assemblies?

Small joint assemblies exist in multiple markets, such as sporting goods, electronics, furniture, motors and electrical.

Small Joint: Small joints are typically irregularly shaped but only a few inches of overlap area. They may be insertion joints or overlap joints, or some combination. Examples include sporting goods (e.g., golf club heads to shaft), plastic casings, lens mounting for instrumentation, mortise and tenon furniture joints, thread locking or shaft retailing, magnet bonding and jewelry making.

Possible Adhesive or Tape Requirements:

- Low viscosity for tight fitting parts
- Vibration resistance
- Very high strength
- Bond dissimilar materials

Best 3M Solutions for Small Joint Assemblies



Scotch-Weld[™] Structural Adhesives

Acrylic, epoxy and urethane structural adhesives hold over 1000 psi in overlap shear strength. Best choice for highest strength, fatigue and environmental resistance especially for metal to metal bonds.



3M[™] Scotch-Weld[™] Instant Adhesives

One part solvent-free adhesive that reaches handling strength in 5–10 seconds. Best for small bondlines (<10cm²). Commonly used on rubbers and plastics. Very tight bondlines are achievable with near instant strength.



3M[™] Hot Melt Adhesives

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



Sotch-Weld[™] PUR Adhesives

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.



Scotch-Weld[™] Retaining Compounds

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.



Scotch-Weld[™] Threadlockers

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.

Performance Factors for Small Joint Assemblies

All 3M technologies in the table below are commonly used in small joint applications. Use the table below as a relative comparison of product performance.

Attribute	3M [™] Scotch-Weld [™] Structural Adhesives	3M [™] Scotch-Weld [™] Instant Adhesives	3M [™] Hot Melt Adhesives	3M [™] Scotch-Weld [™] PUR Adhesives	3M [™] Scotch-Weld [™] Threadlockers
Shear and Peel Strength	000	••	Φ	000	••
Temperature and Solvent Resistance	000	0	00	000	00
Aesthetics	•	000	••	••	••
Rate of Strength Build	Ð	000	000	••	••
Rework	Ð	••	00	Ð	000



Small Joint Assembly Solutions



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

EZ250120, EZ250060

What are Large Surface Lamination Assemblies?

Large surface bonds and laminations exist in multiple markets, such as transportation, appliance, furniture and construction.

Large Surface Lamination: Two surfaces (substrates) of similar size, either rigid or flexible, are bonded or laminated together where a majority of the surface is covered by the adhesive or tape in order to create the bond. Examples include high pressure laminate to tabletops, fabric to foam for furniture, veneers on wood and flexible transportation flooring.

Possible Adhesive or Tape Requirements:

- Cover full surface
- Flexible when dry; not stiff
- Allow for positioning parts
- Bonds quickly/little or no fixturing

Best 3M Solutions for Large Surface Lamination Assemblies



Scotch-Weld[™] Structural Adhesives

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Best suited for applications where high load-bearing strength is required.



Image: SM[™] Contact and Spray Adhesives

Solvent and water based adhesives can be sprayed, brushed or roll applied. Very fast and easy coverage of large areas including irregular and mildly textured shapes. Bonds the widest range of substrates.



Image: SM[™] Hot Melt Adhesives

100% solid, low VOC thermoplastic resins that reach bond strength in seconds. Long open-time formulations can be spray applied. Bonds irregular shapes and textured surfaces.



SCotch-Weld[™] PUR Adhesives

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Long open-time formulations can be spray applied.



■ 3M[™] Adhesive Transfer Tapes

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Instant adhesion with no mess or waste and very thin bondlines.

Performance Factors for Large Surface Lamination Assemblies

All 3M technologies in the table below are commonly used in large surface bonding applications. Use the table below as a relative comparison of product performance. Good = ① Better = ①① Best = ①①

Attribute	3M [™] Scotch-Weld [™] Structural Adhesives	3M [™] Contact and Spray Adhesives	3M [™] Hot Melt Adhesives	3M [™] Scotch-Weld [™] PUR Adhesives	3M [™] Adhesive Transfer Tapes
Shear and Peel Strength	000	Φ	••	000	••
Temperature and Solvent Resistance	000	θ	00	000	0
Aesthetics and Read Through	•	000	••	00	000
Speed and Convenience of Application	0	000	00	••	••
Rate of Strength Build	Ð	000	•••	00	000



Large Surface Lamination Assembly Solutions

+ Rubber	Foam and Cloth		Plastics (ABS, Acrylic,	
* Metals, Paints, Glass (EPDM, Santopro ■ LSB60 ■ 2216 ■ 94 CA, 1357 ■ 1300, 84' ■ 6111/6111HT ■ *468MP, ■ TS230, TS115HGS ■ F9473PC,	(Urethane, Fabrics) 74, 100NF 6111/6111HT	Plasticized Vinyl 2216 4491, 1000NF F9467U, F9465PC	Polycarbonate, Nylon) 2216 94 CA, 4475 6111/6111HT, 6116 TS230, TS115 468MP, 9472LE	 Wood 2216 94 CA, 1357 6111/6111HT TS230, TS115HGS 6035PC,
9485PC = 2216 = 4799 = TS230 = *468MP,	 4799 TS230, TS115 6035PC, 950 	 2216 4799 TS230, TS115 *F9467U, F9465PC 	 2216 4799 TS230, TS115 *468MP, 9472LE 	468MP 2216 4799 TS230, TS115HGS *468MP, 950
	 74, 100NF 6111/6111HT, 6116 TS230, TS115 6035PC, 950 	 4491, 1000NF TS230, TS115 950, F9465PC 	 77, 74 6111/6111HT, 6116 TS230, TS115 950, 6035PC 	 77, 1000NF 6111/6111HT, 6116 TS230, TS115HGS 950, 6035PC
Key 3M [™] Scotch-Weld [™] Structural Adhesives 3M [™] Contact and Spray Adhesives 3M [™] Hot Melt Adhesives 3M [™] Scotch-Weld [™] PUR Adhesives 3M [™] Adhesive Transfer Tapes	Plasticized Vimvi	 2216 4491, 1300 TS230, TS115 F9467U, F9465PC 	 2216 4491, 1300 TS230, TS115 F9467U, F9465PC 	 2216 4491, 1000NF TS230, TS115HGS F9467U, F9465PC
*Primers may also be required in some case	s.	Plastics	 2216 94 CA, 4475 6111/6111HT, 6116 TS230, TS115 9472LE, 468MP 	 2216 94 CA, 4475 6111/6111HT, 6116 TS230, TS115HGS 9472LE, 468MP
			PooM	 2216 94 CA, 30NF 6111/6111HT, 6116 TS230, TS115HGS 6035PC, 468MP

What are Mounting and Trim Attachment Assemblies?

Mounting and trim attachment exists in multiple markets, such as transportation, appliance, furniture, construction and architecture.

Mounting: Applying an object to a surface. Generally, static loads are prevalent and the mounted item is smaller than the surface to which it is bonded. **Examples include small signs, mirrors and white boards, and panel-over-panel with partial adhesive coverage.**

Trim: Decoration or identification added to a surface. Examples include nameplates, edge banding, bezels, rosettes and muntin bars.

Best 3M Solutions for Mounting and Trim Attachment Assemblies



Image: SM[™] VHB[™] Tapes

High-strength bonding tapes are a proven alternative to screws, rivets, welds and other mechanical fasteners. Can pre-apply to trim for production flexibility. Ideal for dissimilar substrates.



Sotch-Weld[™] Structural Adhesives

Acrylic, epoxy and urethane structural adhesives hold over 1,000 psi in overlap shear strength. Use for heavy dead-loads with smaller joint areas (Example: brackets on heavy panels, poorly matched parts with high spring-back forces).



3M[™] Scotch-Weld[™] Instant Adhesives

One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



3M[™] Hot Melt Adhesives

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



3M[™] Scotch-Weld[™] PUR Adhesives

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.

Dead load holding strengthAesthetics

Possible Adhesive or

Tape Requirements:

- Removability
- Fast bonding/little or no fixturing

3M[™] Reclosable Fasteners

3M[™] Dual Lock[™] and 3M[™] Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These products are ideal for quick mounting, trim or sign installation and change out.

■ 3M[™] Adhesive Transfer Tapes

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides



Image: SM[™] Double Coated Tapes

A paper, film or tissue carrier with pressure sensitive adhesive on both sides. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides very thin, aesthetic bondlines. Special formulations for LSE plastics.

Performance Factors for Mounting and Trim Attachment Assemblies

All 3M technologies in the table below are commonly used in mounting and trim attachment applications. Use the table below as a relative comparison of product performance.

Good = 🔂 Better = 🔂 Best = 🔂 🔂

Attribute	3M [™] VHB [™] Tapes	3M [™] Scotch-Weld [™] Structural Adhesive	3M [™] Scotch-Weld [™] Instant Adhesive	3M [™] Hot Melt Adhesives	3M [™] Scotch-Weld [™] PUR Adhesives	3M [™] Reclosable Fasteners	3M [™] Adhesive Transfer Tapes	3M [™] Double Coated Tapes
Shear and Peel Strength	00	000	••	••	000	Đ	θ	0
Temperature and Solvent Resistance	00	000	Φ	Φ	000	••	00	00
Aesthetics	000	¢	00	••	00	00	000	000
Repositionability During Application	Ð	000	Φ	Φ	••	••	Φ	••
Rate of Strength Build	000	0	000	000	00	000	000	000
Removable After Cure	00	N/A	Φ	Ð	N/A	000	00	00

Mounting and Trim Attachment Assembly Solutions



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Gasket Attachment Assemblies?

Gaskets are used in multiple markets, such as electronics, transportation, fluid handling equipment and appliance.

Gasketing: Attachment of a substrate typically, foam, rubber or paper that acts as an interface or seal between two surfaces. 3M offers solutions for attaching preformed gaskets, and also solutions which can replace gaskets or bond and seal simultaneously. **Examples include air and liquid filters, fluid handling equipment, heat exchangers and ball joints.**

Possible Adhesive or Tape Requirements:

- Easy and fast to apply gaskets
- Resist fluids
- High adhesion to foams and rubber

Best 3M Solutions for Gasket Assemblies



3M[™] VHB[™] Tapes

High-strength bonding tapes that can be die-cut into a variety of shapes to replace rubber or foam gaskets, providing an instant, simple solution. Their closed-cell construction provides a watertight barrier between flat parts.



3M[™] Scotch-Weld[™] Instant Adhesives

One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



Soutch-Weld[™] Gasket Makers

One-part anaerobic adhesives can be applied as a curing liquid gasket between complex metal shapes, replacing pre-formed gaskets.



SM[™] Contact and Spray Adhesives

Solvent and water based adhesives can be sprayed, brushed or roll applied. Very fast, easy and economical coverage of multiple substrates, irregular shapes and mild textures.



■ 3M[™] Adhesive Transfer Tapes

Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion to flat, untextured substrates.



Image: SM[™] Double Coated Tapes

Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion.

Performance Factors for Gasket Assemblies

All 3M technologies in the table below are commonly used in gasket attachment applications. Use the table below as a relative comparison of product performance. Good = ① Better = ①① Best = ①①

Attribute	3M [™] VHB [™] Tapes	3M [™] Scotch-Weld [™] Instant Adhesives	3M [™] Scotch-Weld [™] Gasket Makers	3M™ Contact and Spray Adhesives	3M [™] Adhesive Transfer Tapes	3M [™] Double Coated Tapes
High Strength and Rubber Bonding	N/A	000	N/A	••	Ð	•
Temperature and Solvent Resistance	000	Ð	000	000	000	000
Ease of Application	000	00	••	Ð	•••	000
Rate of Strength Build	000	000	Ð	•••	•••	000



+ Metal	Glass	Paint	Plastics: HSE	Plastics: LSE
ିହୁ <mark>-</mark> *PR100	4799	*PR100	*PR100	* PR100
*PR100 4799	■ *468MP, 950	4799	4799	4799
ຶ້≊໌ ■ *468MP, 950	9832, XT6110	■ *468MP, 950	■ *468MP, 950	■ *9472LE, 950
 ▲ *468MP, 950 ■ 9832, XT6110 		9832, XT6110	9832, XT6110	9832, XT6110
Rubb				
္ *PR100	91022	*PR100	*PR100	*PR100
👸 🔳 GM18 replace gasket	9731, 96042	91022	91022	91022
<u>ອຼັ</u> 🔳 91022		9731, 96042	9731, 96042	9731, 96042
⁵⁵ 9731, 96042				
*PR100	1 300	*PR100	*PR100	*PR100
 ■ 6035PC, 950 ■ 9832, XT6110 	■ 6035PC, 950	1 300	1300	90
قُ ■ 9832, XT6110	9832, XT6110	■ 6035PC, 950	■ 6035PC, 950	■ 6035PC, 950
		9832, XT6110	9832, XT6110	9832, XT6110
PR100	1 099	PR100	PR100	*PR100
■ 9472LE, XP2112	9472LE, XP2112	1 099	1 099	90
ź		9472LE, XP2112	9472LE, XP2112	9472LE, XP2112
*PR100	9472LE, XP2112	*PR100	PR100	*PR100
■ GM18 replace gasket		9472LE, XP2112	■ 9472LE, XP2112	9472LE, XP2112
^E ■ 950				

3M[™] VHB[™] Tape can replace gaskets on many substrates listed in the chart. 3M[™] Scotch-Weld[™] Gasket Makers are suitable to replace gaskets in metal to metal applications.

Key

3M[™] Scotch-Weld[™] Instant Adhesives

■ 3M[™] Scotch-Weld[™] Gasket Makers

■ 3M[™] Contact and Spray Adhesives ■ 3M[™] Adhesive Transfer Tapes

■ 3M[™] Double Coated Tapes

*Primers may also be required in some cases.



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

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What is Sealing of Assemblies? What is Potting and Encapsulating of Assemblies?



Sealing and potting exists in multiple markets, such as transportation, metalworking, electronics, electrical, construction and MRO.

Sealing: Tape or sealant is applied over a seam to prevent fluid ingress or fluid egress. Examples include roof seams on vehicles, seams on metal enclosures and pipe sealing.

Potting and Encapsulating: Adhesive flows over and around a component or fills in a chamber to protect components therein. Examples include heavy duty electrical cords and connectors, electronics in plastic cases, circuit boards and concrete repair.

Possible Adhesive or Tape Requirements:

- Highly elongating/flexible
- Fast cure for painting
- Durability

Best 3M Solutions for Sealing, Potting and Encapsulating



Scotch-Weld[™] Structural Adhesives

Acrylic, epoxy and urethane structural adhesives are available in a variety of cure times and flow profiles for potting and encapsulation. Available in both rigid and flexible formulations.

Image: SM[™] Hot Melt Adhesives

Extrudable, 100% solid, thermoplastic resins designed for potting and encapsulating electrical components.

3M[™] Adhesive Sealants

Acrylic, polyurethane and nitrile and hybrid are one component sealing technologies. Can be extruded in any shape on a substrate and are non-sag to fill gaps. Some formulations can be painted wet.

3M[™] Extreme Sealing Tapes

Provides instant sealing and paint-ability when applied over seams or gaps. Conformable over rivets.

Performance Factors for Sealing, Potting and Encapsulating

All 3M technologies in the table below are commonly used in sealing, potting and encapsulation applications. Use the table below as a relative comparison of product performance.

Good = 🕒 Better = 🔂 Best = 🔂 🔂

Attrib	ute	3M [™] Scotch-Weld [™] Structural Adhesives	3M [™] Hot Melt Adhesives	3M [™] Adhesive Sealants	3M [™] Extreme Sealing Tapes
	Flexibility	N/A	N/A	000	000
Sealing	Ease of Application	N/A	N/A	000	00
	Time to Paint (or handle part)	N/A	N/A	•	000
	Immediate Rework	N/A	N/A	000	•
Potting and Encapsulating	Temperature and Solvent Resistance	000	00	0	N/A
	Time to Paint (or handle part)	00	000	•	N/A
	Flowability*	000	••	•	N/A
	Adhesion to Substrates	000	00	Ð	N/A

* 3M[®] Scotch-Weld[®] Structural Adhesives and 3M[®] Hot Melt Adhesives are used for potting and encapsulating where their flow and conformability allow them to fill into, or dome over, complex shapes. 3M[®] Adhesive Sealants are thick and can be dispensed into wide vertical or horizontal gaps, as well as over seams. 3M[®] Extreme Sealing Tape seals over seams and narrow gaps but does not flow into gaps. It can conform over low profile objects such as rivet heads.

Sealing, Potting and Encapsulating Assembly Solutions

		-		
+ Metals (Aluminum, Steel, Stainless, Galvanized) 2216, DP270 3797, 3748 VO *540, *740 4411B, 4411N, 4411G	Paints (Powder Coat, Painted Metal, Composite Panel) 2216, DP604NS 3797, 3748 VO *540, *740 4411B, 4411N, 4411G	Glass DP125 Gray, DP100 Plus Clear *540, *740 4411B, 4411N, 4411G	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon) 2216, DP604NS 3797, 3748 VO *540, *740 4411B, 4411N, 4411G	Plastics: LSE (Polypropylene, Polyethylene) DP8010 Blue 3797, 3748 VO *540, *740 *4411B, *4411N, *4411G
Paints	 2216, DP604NS *540, *740 4411B, 4411N, 4411G 	 DP125 Gray, DP100 Plus Clear *540, *740 4411B, 4411N, 4411G 	 2216, DP604NS *540, *740 4411B, 4411N, 4411G 	 DP8010 Blue *540, *740 *4411B, *4411N, *4411G
Key ■ 3M [™] Scotch-Weld [™] Structura ■ 3M [™] Hot Melt Adhesives ■ 3M [™] Adhesive Sealants ■ 3M [™] Extreme Sealing Tapes	I Adhesives	4411B, 4411N, 4411G	 DP125 Gray, DP100 Plus Clear *540, *740 4411B, 4411N, 4411G 2216, DP604NS 3797, 3748 VO 	 DP8010 Blue *540, *740 *4411B, *4411N, *4411G DP8010 Blue 3797, 3748 VO
*Primers may also be required in	i some cases.	Plastics: HSE, MSE	 *540, *740 4411B, 4411N, 4411G rspinore 	 *540, *740 *4411B, *4411N, *4411G DP8010 Blue 3797, 3748 VO *540, *740
			۹.	*4411B, *4411N, *4411G



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.



We have a wide selection of Low VOC products that help contribute to LEED[®] credits and are GREENGUARD[™] Certified.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product or refund of the purchase price. Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, contract, negligence, or strict liability.



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