



3M Science.
Applied to Life.™

Let's solve it together.

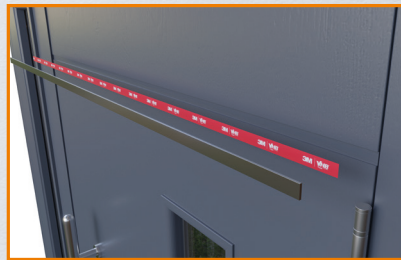
3M solution for doors and windows producers.

Keeping up to date with manufacturing technology? We get it, it can be tough. There can be risk, and it can get overwhelming at times. Let 3M and our expert advice simplify the process for you and keep your operations running smoothly while we be market leaders together.

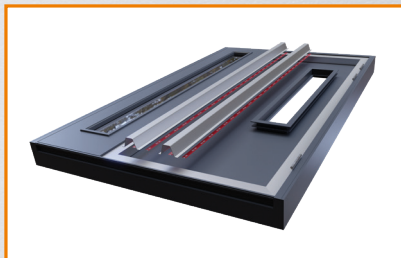
When designing windows and doors, you need to ensure that your products don't just look great but perform to the highest possible standards without risk of deterioration. Efficient, productive applications need adhesives that provide high durability in a cost-effective, easy-to-use manner. 3M's bonding technology is a high-strength, reliable and affordable alternative to traditional fastening methods or silicones and contact adhesives.

Compared to lower quality silicones and adhesives, 3M's adhesive technology creates a stronger bond while weighing less and leaving you with a cleaner design. Unlike traditional fastenings, there's no need to drill holes in the substrate, mitigating the risk of future corrosion and substrate fatigue. With simpler processes and less downtime drilling or curing, you can increase productivity and efficiency on the production line.

Decorative elements/trims –
3M™ VHB™ Tapes or structural adhesive



Stiffener attachment – 3M™ VHB™ Tapes or Structural adhesive



Small part assembly –
structural adhesive



Door applications

3M's adhesive technology is a reliable alternative to screws, rivets, welds and other mechanical or thermal bonding solutions, leaving you with a high-strength bond with a clean, consistent appearance. 3M provides solutions for applications with challenging substrates and processes such as powder coated materials or operations that require high temperature resistance. By simplifying the manufacturing process with 3M tapes and adhesives, you could save time while producing more units and increasing your efficiency.



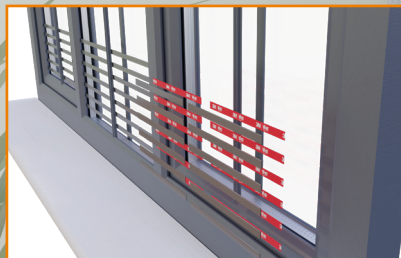
Window applications

From muntin bar installation to window sealing, 3M's tape and adhesive bonding solutions make window manufacturing applications quick and easy. They provide high-strength, reliable bonds that are resistant to environmental conditions while maintaining a clean aesthetic. Our adhesive and tapes solutions make it easier than ever to manufacture frameless windows, so you can meet this growing trend in the architectural market.

Muntin Bars – 3M™ VHB™ Tapes or structural adhesive



Decorative trims – 3M™ VHB™ Tapes or structural adhesive



Window installation – air insulation – FAST range





Small parts assembly –
structural adhesives



Glazing and frame cover
bonding – 3M™ VHB™ Tapes



3M™ VHB™ Tapes

Eliminate the limitations of traditional assembly methods to precisely and easily bond parts with 3M VHB Tapes. Replace rivets, screws, bolts and spot welds, improving design construction, bond line aesthetics and productivity. These high-strength tapes increase the durability and reliability of every bond as their viscoelastic features allow the tapes to conform to surface irregularities and absorb static and dynamic stresses. Our tapes are provided fully cured and bond on contact which further helps to speed up production processes. Increase the overall durability and reliability of your product bond with 3M VHB Tape.

Product name	Thickness [mm]	Colour	Key Features
5915F	0.4	Black	Designed for permanent bonding to powder coated and rigid irregular surfaces. Offers good adhesion to the widest variety of surfaces, including high and medium surface energy plastics and paints, metals and glass. It provides a very conformable adhesive foam core for ease of application.
5925F	0.6	Black	
5952F	1.1	Black	
GPH-060GF	0.6	Grey	Designed for high temperature resistance and multi material bonding of many high and medium surface energy substrates. Its superior high temperature resistance in combination with its conformable foam core allows processing in high operating temperatures such as bonding of applications that undergo a powder coating or liquid painting process.
GPH-110GF	1.1	Grey	
GPH-160GF	1.6	Grey	
4910F	1.0	Clear	Designed for bonding transparent materials or wherever a clear bond is needed. Offers a clear firm acrylic foam core for permanent bonding to high and medium surface energy materials.
4941F	1.1	Grey	Designed for permanent bonding with a high bond strength in critical applications on HSE and MSE materials. Offering plasticiser resistance.

Surface preparation for bonding

- **3M™ VHB™ Tape Surface Cleaner:** Multi-surface cleaner, for use with 3M VHB Tape to ensure a grease free clean surface for the best bond.
- **3M™ VHB™ Tape Universal Primer UV** is a priming solution designed for bonding with 3M™ VHB™ Tapes. It enables strong, durable bonds on many surfaces like metal and plastics such as polypropylene, ABS, PET/PBT.
- **3M™ Silane Glass Treatment AP115** is a solvent mixture of isopropyl alcohol and water that is used to increase adhesion of 3M™ VHB™ Tapes to uncoated glass surfaces. It creates a hydrophobic surface that protects the 3M™ VHB™ Tape and bonds in even the moistest environments. Easy to apply and clear in colour.

3M Adhesives and Sealants

Whatever your bonding needs, 3M™ Scotch-Weld™ Structural Adhesives and 3M Adhesive Sealants give you advanced strength and durability with limited odors and an improved aesthetic. Replace traditional mechanical or thermal methods for fast-bonding, high strength adhesion without visible fastenings or weld spots.

3M™ Scotch-Weld™ Structural Adhesives and 3M Adhesive Sealants produce a seamless appearance, make products lighter and more efficient and give you better design freedom thanks to their ability to bond dissimilar materials. They're more cost and time efficient as there's no need for energy-intensive thermal bonding or time-consuming drilling.

3M Adhesives Sealants

Product name	Skin time[min]	Cure rate [mm/24hr]	Key Features
560	50-60	4	3M Polyurethane Adhesive Sealant 560 is a high-strength, single-component, moisture-curing, gap-filling polyurethane adhesive that creates high strength bonds on a wide variety of materials including plastics, metals, fibreglass and wood.
760UV	10-30	3.5	3M Adhesive Sealant 760 UV is a single-component, moisture-curing, elastomeric, isocyanate-free adhesive sealant that offers exceptional UV resistance and long-term durability. This sealant is permanently elastic and is capable of bonding dissimilar materials, offering long-lasting bonds and design flexibility.
5005	10-15	24h full cure	3M Polyurethane Multi-Purpose Adhesive 5005 is a high performance, one component polyurethane adhesive that bonds to a broad variety of substrates like plastic, concrete, rigid foams and other porous substrates. It is particularly suitable for structural bonding of all types of wood, including those with high moisture content, and also difficult to bond exotic wood.

3M™ Scotch-Weld™ Acrylic Adhesives

Product name	Colour	Mixed Work Life at 24°C	Time to Handling Strength at 24°C	Key Features
DP8810NS	Green	10 min	16-20 min	3M™ Scotch-Weld™ DP8810NS and DP8405NS are a high performance, two-part acrylic adhesives that offer excellent shear, peel, and impact performance. These toughened products provide improved adhesion to many plastics and metals, including those with slightly oily surfaces. These durable products feature a fast rate of strength build, providing structural strength in minutes. Their low odour and non-flammability features also make them easier to incorporate into a manufacturing process.
DP8405NS	Green	5 min	14-16 min	

Single sided tapes

When you're using a range of substrates, it's crucial that you're equipped with the right tools for the job. That's why 3M has created a range of single-sided industrial tapes suitable for various applications during door and window manufacturing and installation.

For sealing, weatherproofing and flashing, use 3M FAST tapes. These high tack, UV-resistant, and highly conformable tapes stretch to fit sills, curves and corners in a single piece for an airtight, waterproof bond without joints or seams. The easy, hassle-free installation is up to 60% faster than conventional sealing methods.

All Weather Flashing Tape – FAST range

Product name	Colour	Adhesive Type	Key Features
8067E	Tan	Acrylic	3M Flexible Air Sealing Tape 8067E FAST-F is a self-adhered, waterproof flashing tape. This product has a unique acrylic pressure sensitive adhesive that aggressively sticks and stays stuck both at lower and higher application temperatures than traditional flashing tapes.
8045P	Grey	Acrylic	3M Ultra Conformable Flashing Tape 8045P is a tough commercial flashing tape designed to work with both permeable and non-permeable wall systems. This tape is extremely flexible, stretching in both horizontal and vertical directions, and can stretch to conform around corners. This tape does not require a primer.
8069E	Tan	Acrylic	3M Flexible Air Sealing Tape 8069E FAST-D is an air, moisture and water impermeable tape with an aggressive, high-tack acrylic pressure sensitive adhesive on both sides of a unique multilayer elastomeric film.

You can also protect substrates through processes as simple as painting or as intense as powder coating with 3M's range of masking tapes. Ensure full protection, better finishes and cleaner removal with less slivering.

Masking and Single Sided Tapes

Product name	Adhesive type	Backing Material	Key Features
244	Acrylate	Yellow paper	Waterproof tape with good temperature resistance (100°C). Can be used for a wide range of masking applications, especially for wood applications where UV resistance and clean removal is required.
501	Acrylate	Purple paper	This tape is specifically designed for industrial paint applications where surface temperatures can reach up to 150°C. The tape sticks instantly to most surfaces, including metal, rubber, glass and plastic, as well as EPDM-type rubber moldings while removing cleanly in one piece.
8991	Silicone	Polyester	Widely used for high temperature masking operations such as powder coat painting. It is also ideal for protecting surfaces during manufacturing and transportation. Coated with a silicone adhesive, this tape adheres well to a wide variety of surfaces and then removes cleanly when required. It is chemically resistant and performs under a wide range of temperatures and environments (from -50°C to 204°C)
8992	Silicone	Polyester	



Why choose 3M?

3M uses science and technology to improve lives and provide innovative manufacturing solutions around the world. A market leader in bonding technology, 3M's tapes and adhesives are used in countless industries thanks to their unwavering reliability and ease-of-use, making them some of the most popular on the market. We collaborate with our customers to help them develop lighter, more attractive, longer lasting products at an affordable price point with better flexibility when designing and selecting materials. From our low-profile tapes to our structural adhesives, 3M's bonding technology can provide adhesive solutions throughout the manufacturing process and beyond.

Solve your door and window assembly challenges with 3M's innovative range of bonding and adhesive solutions. With 3M, you can make a long-lasting connection without the need for screws or welding, improve performance and speed up production without lengthy curing and drying times. 3M's adhesive solutions help improve design and manufacturing processes, so you can deliver high-quality, competitive products to the market.

Our adhesive experts can provide you with the best technical advice, so you'll feel confident choosing the right solution for your operation. Through individual laboratory testing we can recommend the best products to fit your production line based on stability and durability to give you a unique, personalised solution.

If you're unsure what product is best for you, get in touch with our team of experts for a free sample so you can test our range of bond and adhesive solutions yourself before making the decision to buy.

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