



Jet-Weld™ Thermoset Adhesive System



Hot melt speed and structural strength performance for wood, metal, many plastics, and more.

Trigger a bead – fast, easy and neat



Get off to a fast start... and finish with no purging

3M™ Jet-Weld™ Adhesive cartridges are simply loaded into the rear of the handy self-contained 3M™ Jet-Weld II™ Applicator.

The applicator end cap twist-locks the cartridge into position.

For improved productivity, the optional Jet-Weld Adhesive preheater keeps up to four adhesive cartridges ready to use. That means you can keep one to four Jet-Weld applicators operating full time.

With pre-heated adhesive, a simple squeeze of the trigger immediately starts the application of the adhesive at up to 5 kg per hour.

At the end of operation, there's no purging of the applicator.



- Tool balance – For worker comfort during extended use, the applicator can be balanced and supported from above to effectively decrease the weight.



- Job matched tips change with a few simple turns of a common wrench. Tip selection includes the following:

- 1) Threaded cap for sealing tip after use.
- 2) 0.072" orifice (1.25" long) extension tip for improved sight line in hard-to-reach areas.
- 3) 0.062" orifice for low flow applications.
- 4) 0.125" orifice for high flow applications.

- 0.090" orifice tip comes standard with the applicator.



- Applicator rest holds applicator upright when not in use. Frees both hands for component assembly.

- Impact-resistant plastic construction is engineered for lightweight handling ease and the hard realities of the shop and plant.
- 100% solids 3M™ Jet-Weld™ Adhesive is applied molten at only 121°C (250°F). No temperature adjustments required.
- Open time up to 10 minutes allows product positioning.
- Set time as fast as 15 seconds helps eliminate or minimize fixturing.
- Handle fits most hand sizes and is positioned to help balance the applicator.
- Electrically-heated, pneumatic applicator targets bead for neat application of 3M Jet-Weld Adhesives with the squeeze of a trigger.



more than just an alternative



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Thin bond lines at hot melt speeds with

The hand-held 3M™ Jet-Weld™ II Adhesive Applicator and moisture-curing urethane adhesives put a powerful production capability in your assembly operation.

This single system combines production benefits typical of hot melt adhesives and bond performance usually associated with 2-part structural adhesives.

Benefits typical of hot melt adhesives

- Fast initial set and handling strength in as few as 15 seconds helps eliminate or minimize fixturing, and speed assembly.
- One-component, moisture-curing eliminates metering, mixing and curing equipment. Helps simplify production as well as save energy.
- 100% solids gives you a low-VOC adhesive system with no drying equipment and no attack on plastics.

Structural strength

- Up to a half ton in holding power after only ten minutes exceeds strength of conventional hot melt and PVA adhesives.
- Eliminates nails and other mechanical fasteners in many applications to help save the time of finishing steps.

Application versatility

- Proprietary chemistry bonds a wide variety of substrates, including wood, plastics, rubber, dissimilar materials and plasticized vinyls.
- Up to 10-minute open time allows positioning of multiple or complex parts.
- Thin, flexible and tough bond lines help improve the fit, appearance and durability of your product.
- Help you meet production volume requirements with self-contained hand-held Jet-Weld II Applicator or your own bulk dispensing equipment.



Photo courtesy of David Trubridge designer.

Application ideas

- Decorative trim (A) – Thin glue line forms a virtually invisible bond between simulated-wood plastic trim and the wood cabinet door surface.
- Store shelving/displays (B) – For clean, modern design, mechanical fasteners are eliminated in construction of cabinets, shelves and tables.
- Countertop edging (C) – Adhesive bead applies neatly and eliminates nails and the extra work of putty and sanding
- Decorator tables (D) – One-component eliminates fixturing in multi-tasks including V-groove bonding at the table joints, and laminating tops.

holding power up to a half ton



- Gliding windows (E) – Fast handling strength helps speed bonding of interior wood trim to vinyl sash.
- Bent wood furniture (F) – Structural strength holds the aesthetic contours of unique all-wood furniture.

- Speaker cones (G) – Flexible, tough bond lines hold dissimilar materials and multiple components
- Trade show booth (H) – Adhesive bonds extruded aluminum bracket to the laminate covering of a honeycomb panel. Bracket is used for hanging graphics.

Many applications in other markets :

- Home and office furniture
- Windows and doors
- POP and retail shelving/displays
- Automotive and marine
- Electronics cabinetry and housings
- Toys
- Sporting goods

Wide adhesive selection with strength greater than many substrates

Select adhesives and containers to meet your specific requirements

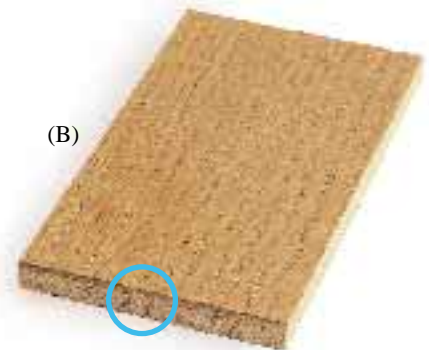


TE-030, TE-100, TE-200, and TE-430 adhesives are your primary choices for wood bonding. For bonding plastics, you'll want to consider TE-031 and TS-230. All 3M™ Jet-Weld™ Adhesives are available 295 ml in 10 fl.oz. cartridges for use with the 3M Jet-Weld II Applicator. Some Jet-Weld Adhesives are also available in 2k foil packs, 16 kg foil packs, 5-gallon pail, and 55-gallon drum.



Hard-to-find structural strength bond lines

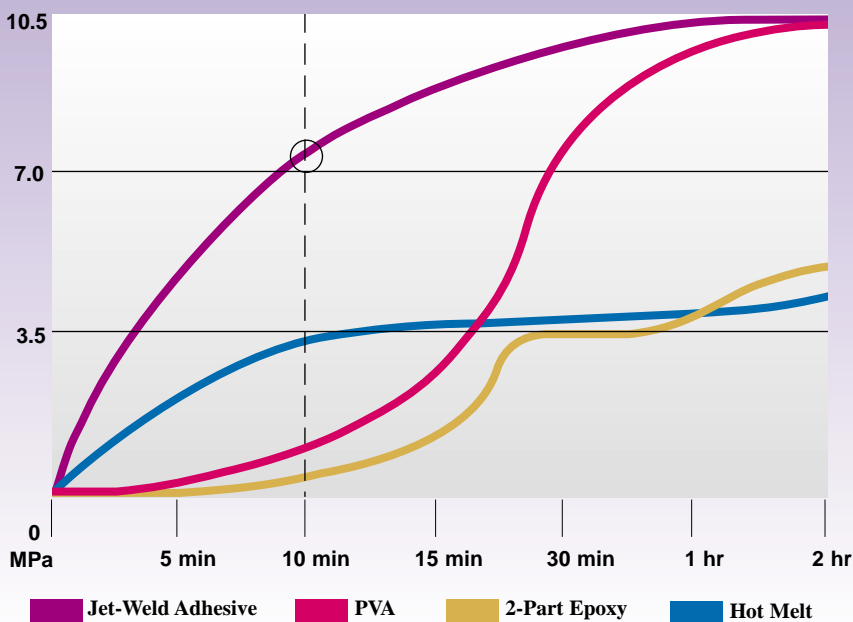
In a test of two pieces of oak (A) edge-spliced with 3M Jet-Weld Adhesive, the bond line is neat, and clean (B). Even with close scrutiny of the edge and stained surface, the bond line is hard to find.



Ultimate bond strength depends on the adhesive and substrate. But in this edge-splice test using 3M Jet-Weld Adhesive and many other applications, the substrate will fail before the bond (C). See data sheets for additional technical information about 3M Jet-Weld Adhesives.



3M Jet-Weld Adhesive* Strength Build-up (Lap Shear)** Versus Typical Conventional Adhesives



3M™ Jet-Weld™ Adhesive speed decreases fixture time to help increase productivity. In only 10 minutes, bond strength exceeds the structural strength base line of 7.0 MPa in lap shear. After an hour, strength is greater than many substrates (note splice test at right).

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.