



Structural adhesive benefits with hot melt adhesive speed for wood, plastic, and more



3M™ Scotch-Weld™ Polyurethane Reactive (PUR) Adhesive Systems



Production power of dual technologies in single, self-contained systems

The hand-held 3M[™] Scotch-Weld[™] PUR Easy Adhesive Applicator or PUR Easy 250 Applicator put a powerful production capability in your assembly operation. With either applicator and 3M polyurethane reactive adhesives, you have the practical benefits of two technologies.



Performance benefits typical of structural adhesive technology

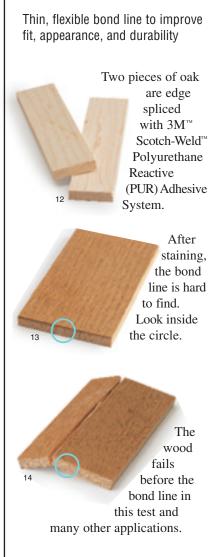
- Greater than 1,000 lbs. holding strength within minutes exceeds strength of conventional hot melt and PVA adhesives
- Save finishing steps with the elimination of nails and other mechanical fasteners in many applications



Production benefits typical of hot melt adhesive technology

- **Fast set** and handling strength in as few as 5 seconds help eliminate or minimize fixturing to speed assembly
- Low VOCs and 100% solids eliminate drying and ventilation equipment and will not attack plastics
- Choice of open times and viscosities depending on the applicator and adhesive
- One-component and moisture-curing eliminate metering, mixing, and curing time and equipment





Trigger a neat adhesive bead at up to 11 lbs/hr for many applications

Windows and Doors

- Interior and exterior wood and metal household doors
- Wood trim to vinyl sash in windows
- · Mirrors to doors
- Kick plates to doors
- · Rubber insulation to wood, plastic and metal
- · Shade pulls, venetian blinds, and cornices

Household and Office Furnishings

- Wood or plastic decorative trim and moldings for wood furniture and cabinets
- Wood furniture component assembly

- Edge moldings for countertops, tables, shelving, and desks
- Wood or MDF drawer bottoms, backs, and facings
- · Glass stabilization in entertainment center doors
- Cabinet framing and door panel joints
- Speaker felt attachment to spider coils in sound systems
- Fabric and leather in furniture upholstery and trim
- Staircase risers and runners
- Modular office wall partitions

A few of the many more examples

- Fiberglass to wood in marine interiors
- Metal to laminated honeycomb in trade show booths
- Plastic to plastic in point-of-purchase displays

3M[™] Scotch-Weld[™] Polyurethane Reactive (PUR) Easy Adhesive Systems

System Components

- Electrically-heated pneumatic green applicator dispenses adhesive at 170°F (77°C) with the squeeze of a trigger
 - Easy to use and maintain with disposable nozzle, no tip cap, no grease, and no system purging
 - Adhesive can stay in applicator at dispensing temperature for up to 40 hours
- Four adhesives with a range of properties including adhesion to heat sensitive substrates
- Optional pre-heater to keep cartridges ready to use

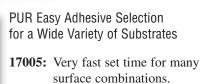




Permanently and quickly bond wood and MDF (Medium Density Fiberboard) bottoms and side panels in drawers.



Bond wood or plastic rosettes to wood drawers without fixturing or drying time.



17010: Very fast set time for small to medium wood or plastic parts. 0.75-minute open time.

0.75-minute open time.

17030: Medium set time for bonding wood to select plastics. Low viscosity. 1-minute open time.

17060: Longer set time for many surface combinations. Lower viscosity. 2.5-minute open time.

For details see pages 6 and 7.



Adhesives are available for bonding a variety of wood sizes and configurations such as this mortise and tenon assembly.



For both PUR Easy and PUR Easy 250, an optional filter/pressure regulator is available to remove particulate material and water.

Higher application temp for longer open time

3M[™] Scotch-Weld[™] Polyurethane Reactive (PUR) Easy 250 Adhesive Systems



System Components

- Electrically-heated pneumatic yellow applicator dispenses adhesive at 250°F (121°C) with the squeeze of a trigger
 - Easy to use and maintain with disposable nozzle, no tip cap, no grease, and no system purging
 - Adhesive can stay in applicator at dispensing temperature for up to 16 hours
- Five adhesives with a range of properties including adhesion in difficult-to-bond jobs such as hardwood miter corners
- Optional dual temperature pre-heater to keep cartridges ready to use

PUR Easy 250 Adhesive Selection for a Wide Variety of Substrates Including Many Difficult-to-Bond Applications

250015: Fast set time for wood and select plastics. 1-minute

open time.

250060: Medium set time for wood and select plastics. 2-minute open time. Low viscosity.

250120: Medium set time for bonding wood with thin glue lines. Low viscosity. 4-minute open time.

250030: Fast set time for many plastics including polystyrene and polyacrylic. 2-minute open time.

250150: Medium set time for metal, plastics, glass, and many surface combinations including aluminum or glass to plastics or wood. 4-minute open time.

For details see pages 6 and 7.



Long open time provides production speed flexibility for bonding a mirror to plywood or MDF panel in a medicine cabinet door.



A neatly applied bead of adhesive bonds the extruded plastic edge molding to the particle board core of a counter top.



For furniture and upholstery, PUR 250 adhesive bonds leather or fabric gimping and seams.



With a thin bond line, PUR 250 adhesive makes a secure, aesthetically-pleasing crown molding assembly.

3M™ Scotch-Weld™ Polyurethane Reactive (PUR) Easy Adhesive Information

| Product | Description | Viscosity @ 170°F (77°C) (CPS) | Open Time (Min.) | Set Time (Sec.) | Shore D | Tensile Strength (PSI) | Elongation (%) |
|---------|---|--------------------------------------|------------------------|-----------------------|------------|------------------------------|-------------------|
| 17005 | Very fast set time Excellent wood bonding adhesive Medium open time | 28,600 | 0.75 | 5 | 65 | 3900 | 725 |
| 17010 | Fast set time Best for bonding wood and plastics Small-to-medium parts assembly | 14,200 | 0.75 | 10 | 35 | 1055 | 750 |
| 17030 | Medium set time Low viscosity Best for bonding wood to select plastics Thin glue line | 15,700 | 1 | 30 | 60 | 4000 | 625 |
| 17060 | Long open time | 9600 | 2.5 | 60 | 30 | 1625 | 400 |

Open times and set times are based on a room temperature environment. High temperatures will lengthen open times and set times while lower environmental temperatures will shorten open times and set times.

12 Months is the maximum amount of time an end-user has to use the product while stored within the conditions recommended by 3M.

| Open Time |
|--|
| This is the maximum time between the application |
| of the adhesive and when the parts must be |
| joined together. This information is based on 1/8" |
| head and non-metallic substrates at 75°F (20°C) |

Also known as fixturing/clamping time. This is the minimum amount of time required for the adhesive to solidify and hold the parts together (able to support a tensile load of 5 psi).

Adhesive/Substrate Bonding Guide

| Substrates | Wood hardb | | M | DF* | PVC | | Polyst (beadl | | Polycar | bonate ⁴ | Melamine | | ABS | | FRP-epoxy** | | Polyacrylic | | |
|---------------------------------|----------------|----------------------------|----------------|----------------------------|----------------------------------|---|----------------------------------|--|-------------------------|---------------------|-------------------------|----------------------------|----------------------------------|----------------------------|-------------------------|----------------------------|----------------------------------|------------------|--|
| | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | |
| Wood/ hardboard | 17005 17030 | 250015 250060 250120 | 17005 17010 | 250015 250060 250120 | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17030 17010 17060 | 250030 250060 250150 | 17005 17010 17030 17060 | 250030 250150 | |
| MDF* | | | 17005 17010 | 250015 250060 250120 | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17030 17010 17060 | 250030 250060 250150 | 17005 17010 17030 17060 | 250030 250150 | |
| PVC | | | | | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17010 17060 17030 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| Polystyrene (beadboard) | | | | | | | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17030 17010 17060 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| Polycarb- onate ⁴ | | | | | | | | | 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17030 17010 17060 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| Melamine | | | | | | | | | | | 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17010 17060 17030 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| ABS | | | | | | | | | | | | | 17005 17010 17030 17060 | 250015 250030 250150 | 17030 17010 17060 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| FRP-epoxy | | | Г | | | | | | | | | | | | 17030 17010 17060 | 250030 250060 250150 | 17030 17060 | 250030 250150 | |
| Polyacrylic | | | | meta itself | ll, glass a or each | nded for and cerar other due smission | nic to e to low | | | | | | | | | | 17030 17060 | 250030 250150 | |
| Polystyrene | | | | subs 2 Abra Not f | trates. de uncoa or use or | ited alum | inum. ed | | | | | | | | | | | | |
| Fabric/ felt/cork | | | | hot/h 3 Rubb | numid con pers vary | in comp | osition. | | | | | | | | | | | | |
| Leather | | | | must | be evalu | specific rule at the control of the | user. | | | | | | | | | | | | |
| SBR | | | | at ele For po | evated te lypropyle | mperatu | es. | | | | | | | | | | | | |
| Nitrile Rubber ³ | | | | treatme | ent may i | orona or mprove a | dhesion. | | | | | | | | | | | | |
| Neoprene ³ | | | | | | | | | | | | | | | | | | | |

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

3M™ Scotch-Weld™ Polyurethane Reactive (PUR) Easy 250 Adhesive Information

| Product | Description | Viscosity @ 250°F (121°C) (CPS) | Open Time (Min.) | Set Time (Sec.) | Shore D | Tensile Strength (PSI) | Elongation (%) |
|--------------|---|---------------------------------------|------------------------|-----------------------|------------|------------------------------|-------------------|
| Wood Adhes | ives | | | | | | |
| 250015 | Fast set time for wood and select plastics | 7000 | 1.5 | 15 | 65 | 3900 | 750 |
| 250060 | Medium set time for wood and select plastics | 7000 | 2 | 60 | 60 | 4200 | 675 |
| 250120 | Medium set time • Low viscosity Very thin bond line for wood | 3000 | 4 | 120 | 60 | 4000 | 625 |
| Plastic Adhe | sives | | | | | | |
| 250030 | Fast set time for many plastics including polystyrene and polyacrylic | 13,000 | 2 | 30 | 50 | 3900 | 725 |
| 250150 | Long open and set times for wood, plastics, and material combinations such as aluminum or glass to plastics or wood | 9000 | 4 | 150 | 45 | 3300 | 700 |

| Polystyrene | | Fabric/f | elt/cork | Leather | | SB | R | Nitrile | Rubber ³ | Neoprene ³ | | Glass/ceramic | | Alumini | ım ^{1, 2} |
|-------------------------|------------------|----------------------------------|--|----------------------------------|--|----------------------------------|------------------|----------------------------------|---------------------|-----------------------|---------------|----------------|---------------|----------------|--------------------|
| PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 | PUR EZ | PUR EZ 250 |
| 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250060 250150 | 17010 17030 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250060 | 17005 17010 17030 17060 | 250015 250030 250060 | 17005 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250015 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250030 250060 250150 | 17010 17030 17060 | 250030 250060 250150 | 17005 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17030 17060 | 250030 250060 250150 | 17030 17060 | 250030 250060 250150 | 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| 17010 17030 17060 | 250030 250150 | 17010 17030 17060 | 250015 250030 250150 | 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17005 17010 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| | | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17005 17010 17030 17060 | 250030 250150 | 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| | | | | 17005 17010 17030 17060 | 250015 250030 250060 250120 250150 | 17030 17060 | 250030 250150 | 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| | | | | | | 17030 17060 | 250030 250150 | 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| | | | | | | | | 17030 17060 | 250030 250150 | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| | | | | | | | | | | 17010 17030 | 250150 | 17010 17060 | 250150 | 17010 17060 | 250150 |
| ** 4 !: | | | | * 505 | | -I DI4 | - 77 | | 1030 | 3/1/10 | 11 | 4.19 | The first | 100 10 | 9 05,83 |

^{*}Medium Density Fiberboard ** Fiber Reinforced Plastic

3M[™] Scotch-Weld[™] Polyurethane Reactive (PUR) Adhesive Systems – stairs, shutters, frames, and more



PRODUCT USE: All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

WARRANTY AND LIMITED REMEDY: 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to repair or replace the product or refund the purchase price. LIMITATION OF LIABILITY: Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



Industrial and Transportation Business Industrial Adhesives and Tapes Division

3M Center Bldg. 21-1W-10 900 Bush Ave. St. Paul, MN 55144 1-800-362-3550 www.3M.com/adhesives Scotch-Weld and 3M are trademarks of 3M Company.