



INSTALLATION RECOMMENDATIONS FOR ENERBOND™ PROFESSIONAL FOAM ADHESIVE

ENERBOND™ Professional Foam Adhesive is a heavy-duty adhesive specially formulated to bond subfloors, drywall, paneling, foam panels and most construction materials. Different from traditional adhesives because of its excellent bonding power on dry, damp and even frozen lumber, ENERBOND™ Professional Foam Adhesive provides a fast-grab tack and long-term high-strength bond. It bonds to lumber, plywood, particle board, masonry, drywall, concrete and foam panels. It is an ideal choice for anchoring, joining and stabilizing insulated concrete forms and structural insulated panels. ENERFOAM™ Professional Foam Sealant can be used to seal gaps in the forms and prevent concrete leakage during the pouring stage.

MATERIALS CHECKLIST

- ENERBOND™ Professional Foam Adhesive
- Foam dispensing guns
- Protective wear, including goggles, gloves and proper clothing
- Dry cloth, putty knife or paint scraper
- Gun cleaner, acetone, or other adhesive remover

PREPARATION

1. Read and follow the Safety and Conditions of Use Instructions on page 2. Wear gloves, safety glasses or goggles and long sleeves. Provide good ventilation and eliminate all sources of ignition.
2. Remove all contaminants (water, oil, dust, dirt, debris or other loose materials or release agents) that may affect the adhesion between the substrates. If in doubt, conduct an adhesion test, waiting at least one hour to assess the bond.
3. If the surface area has been previously painted, scrape away all loose or poorly adhered paint and sand or thoroughly roughen the surface. Conduct an adhesion test if any previously painted surfaces are to be bonded.
4. Whenever possible, allow any concrete or masonry substrates to completely cure before bonding.
5. Shake can vigorously for one minute before dispensing or between uses.
6. Invert can and screw foam dispensing gun firmly onto valve as shown in Figure 1. Screw until finger-tight; do not overtighten (Figure 2).
7. When changing cans, tighten the flow control knob before removing the empty can (Figure 3). Use gun cleaner, acetone or other adhesive remover to remove any residual foam from the attachment area before attaching fresh can. Always replace can immediately. Press the trigger to fill the foam dispensing gun with adhesive.
8. Dispense adhesive for 3-6 seconds to purge air from gun.
9. To control size of adhesive bead, squeeze trigger on the foam dispensing gun or adjust the flow control knob on the back of the gun (Figure 4).

FIGURE 1



TIP: Using grease or petroleum jelly in the adapter of the gun can reduce possibility of foam gluing the can on the gun.

FIGURE 2

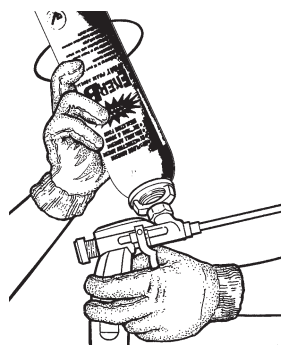


FIGURE 3

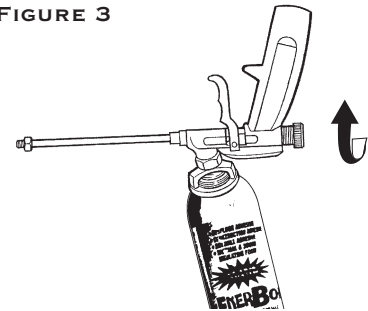
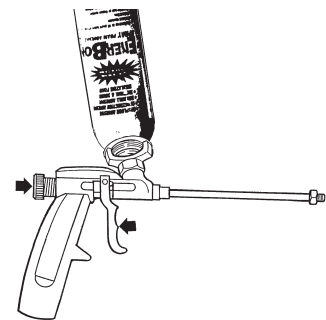


FIGURE 4



APPLICATION

1. Keeping can inverted, apply a 1/2" (13 mm) bead of adhesive the full length of each stud or joist (Figures 6 and 7).

TIP: Apply adhesive in a continuous bead, with no voids or breaks, to achieve an effective bond.

FIGURE 5

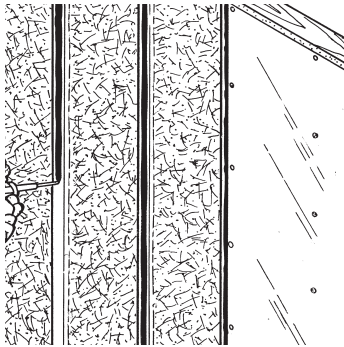
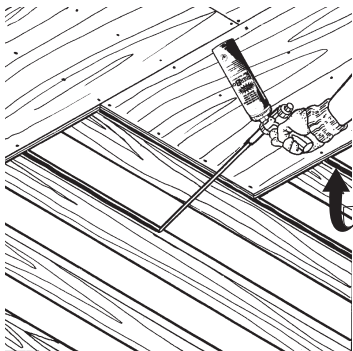


FIGURE 6



2. Wherever sheet materials butt together along sistered studs or joists, dispense two 1/2" (13 mm) beads side by side or one 1/2" (13 mm) bead in a zigzag pattern the full length of the sistered studs or joists (Figures 8 and 9).

FIGURE 7

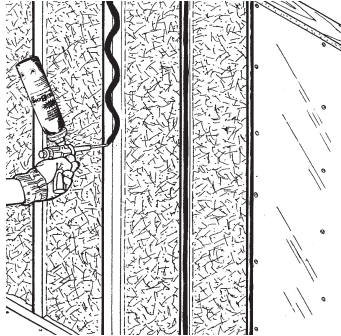
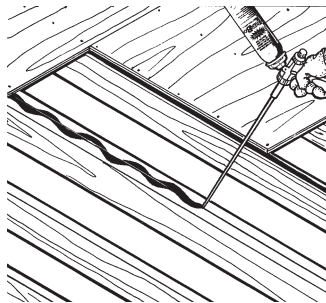


FIGURE 8



TIP: Always close the flow control knob when the gun is not in use

3. Clean foam dispensing gun periodically by rubbing the nozzle on soft wood to free it from adhesive. Do not use a sharp object to clean foam dispensing gun. Use a solvent cleaner such as gun cleaner, acetone or other adhesive remover between extended periods of non-use.
4. Adhere substrates within 10 minutes of dispensing adhesive. If the applied bead has skinned over, scrape it off and apply a new bead.
5. Mechanical fasteners must be installed soon after adhesive application in all cases. Assemblies must

be compressed to enable ENERBOND™ Professional Foam Adhesive to aggressively bond to the materials. Mechanical fasteners should be installed within 15 minutes after applying for best bond.

NOTE: ENERBOND™ Professional Foam Adhesive reaches initial bond within two hours, and is fully cured in about seven days. Cure times will be shorter at higher temperature and humidity, and longer at lower temperature and humidity.

SAFETY AND CONDITIONS OF USE

- Read the label and Material Safety Data Sheet carefully before use.
- ENERBOND™ Professional Foam Adhesive contains isocyanate and a flammable blowing agent. Vapor may travel to other rooms. Ensure adequate ventilation. Shut off all pilot lights and extinguish open flames; eliminate all sources of ignition before use. Do not smoke or use lighters or matches while dispensing foam.
- Do not breathe vapor or mist. Use in well-ventilated areas or wear proper respiratory protection (an organic vapor cartridge with P100 particulate filter). Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.
- ENERBOND™ Professional Foam Adhesive is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.
- The contents are under pressure. The can may burst if left in areas susceptible to high temperatures, such as motor vehicles, or near radiators, stoves or other sources of heat. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F (149°C).

- ENERBOND™ Professional Foam Adhesive should not be used around heaters, furnaces, fireplaces, recessed lighting fixtures or other applications where the foam may come in contact with heat-conducting surfaces. ENERBOND™ will burn if exposed to open flame or sparks from high-energy sources, and it will start to thermally degrade if exposed to temperatures above 240°F (116°C) for long periods of time.

TIP: Always clean foam dispensing gun with gun cleaner, acetone or other adhesive remover or leave attached to a can of adhesive.

CLEANUP

- Excess adhesive can be cleaned from the substrate while still uncured using a dry cloth, putty knife or paint scraper. Uncured adhesive can be removed with gun cleaner, acetone or other adhesive remover. Cured adhesive must be mechanically removed or allowed to wear off in time.
- For short-term storage, tighten the flow control knob until fully closed. Use can within 30 days of initial use. Store upright with foam dispensing gun attached. To reuse, shake vigorously for one minute before dispensing. Adjust flow control knob to the open position.
- For long-term storage, unscrew can and use gun cleaner, acetone or other adhesive remover to clean uncured adhesive from the exterior assembly. Wear gloves and safety goggles while cleaning the gun. To clean the foam dispensing gun's interior assembly, invert can of cleaner and screw onto adapter, being careful not to overtighten. Spray until all adhesive is blown out of the foam dispensing gun and only cleaner is visible (approximately half the can of cleaner will be used). Allow the gun containing the solvent to sit for several minutes and repeat with a second flush.
- Do not leave a can of cleaner mounted on the foam dispensing gun. This will dissolve the lip seals inside the gun and render it useless. Foam escaping at the handle or trigger indicates a faulty seal.

NOTE: If this happens, the gun should be replaced. If the foam dispensing gun has not been cleaned, add a new can of ENERBOND™ Professional Foam Adhesive immediately. If left without a can attached, exposure to air and moisture will cause the foam in the gun to cure. A fresh can of adhesive may be left attached to a foam dispensing gun that has been cleaned for up to 30 days.

TIP: Treat your gun like a tool. The better you take care of it, the longer it will last.

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ENERFOAM™ and ENERBOND™ sealant and adhesive products contain isocyanate and a flammable blowing agent. Read the label and Material Safety Data Sheet carefully before use. Eliminate all sources of ignition before use. Wear long sleeves, gloves and safety glasses or goggles. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

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