

BOSS® 347 Multi-Purpose Construction Adhesive

TYPICAL PROPERTIES

Type	Synthetic Rubber and Resins (Solvent)
Color	Tan
Solids by Weight	65%
Flash Point	0°F
Flammability (See OSHA Cautions on Label)	
.....	Flammable While In Use
Toxicity (See MSDS)	Toxic Only If Swallowed
Open Time at 70°F (21°C) and 50% RH	30 minutes
Cure Time (depending upon atmospheric conditions)	
.....	24 to 48 hours
Application Temperature	20°F to 100°F
Service Temperature	20°F to 180°F
Freeze-Thaw Stability	Will Not Freeze
Clean Up	Mineral Spirits or Lacquer Thinner

*Information on this data sheet is subject to change without notice and should not be used for writing specifications.
For additional information on specific applications, contact Accumetric, LLC

DESCRIPTION

BOSS® 347 Multi-Purpose Construction Adhesive is a premium quality, waterproof adhesive formulated using synthetic rubber and tackifying resins. It is specially designed for the bonding and installation of all types of plastic foams and polystyrene including Styrofoam® brand plastic foam and Formular® Extruded Polystyrene Insulation. When used as directed, **BOSS® 347** will not attack polystyrene and other plastic foams. Because of its unique design, this adhesive forms a 'bridge' between the panel and the bonding surface with a strong yet flexible bond. This product is also highly recommended for use with all types of vinyl covered gypsum board due to excellent initial tack and rapid bond development. It will not cause any staining, bleeding, or blistering effect.

BOSS® 347 provides excellent adhesion to a wide variety of building materials including wood, fiberboard, metals, masonry, brick, concrete, marble, cork, insulation hangers, polystyrene bath panels, fiberglass, glass, glazed surfaces and much more. This adhesive also exhibits good heat resistance and is recommended for use in Fire-Rated wall and partition designs.

Styrofoam® is a registered trademark of Dow Chemical USA
Formular® is a registered trademark of U.C. Industries, Inc.

USES

BOSS® 347 Multi-Purpose Construction Adhesive is primarily a dual-purpose adhesive to be used with all types of plastic foams and paneling, this eliminating the need to purchase two adhesives. This product is not a contact adhesive, meaning it will allow repositioning of panels for up to 20 minutes. **BOSS® 347** offers fast and easy installation with reduced mechanical fasteners. The end result is a job that looks better and is stronger in construction. As a multi-purpose adhesive, this product has a wide variety of uses which includes both commercial and consumer applications.



Primarily, this product is used for bonding foam to block or concrete walls and ceilings, bonding drywall, vinylboard or paneling to foam and/or wood or metal studs. **BOSS® 347** is also used in the manufacturing or construction of cold storage units in the Low Temperature market. It is also recommended for foam to block in exterior applications below grade.

- Fast, easy to use
- Easy clean up
- Light tan color
- Drip resistant
- Reduces nailing
- Bridges minor framing irregularities
- Reduces sound transmission
- Unaffected by moisture
- Fast grab, sets up quickly

SPECIFICATIONS

BOSS® 347 Multi-Purpose Construction Adhesive fully meets or exceeds the following specifications: ASTM C557-73, tested in accordance with ASTM E-84 for use in Fire Rated Systems, conforms to Canadian CGSB 71-GP-25M Specifications.

PACKAGING

BOSS® 347 is available in 10.3 Fl. Oz. cartridges, 29 Fl. Oz. cartridges and 5 gallon pails.

HOW TO USE

Application Methods

- 1. Extruded Bead Method:** For relatively smooth and level surfaces, apply a 3/8" round bead of adhesive to full length of a sheet of foam board 1" in from the edge. Then run an "X" bead from corner to corner through the field of the board. *Alternate Method:* Use parallel bead 12"-16" on center the full length of the foam board. For applications involving wood or metal framing members, apply a 3/8" continuous bead on each framing member. This method is easiest and most widely used in the industry.
- 2. Spot Method:** For rough surfaces, this method works best. Using a putty knife, apply spots of adhesive to the surface of the board beginning at one corner and spacing the spots 8"-12" on the center. Each spot of adhesive should be at least 1" across by 3/4" high. The method usually requires a greater amount of adhesive than does the Trowel Method. Do not use this method on wood or metal studs.
- 3. Trowel Method:** For greater surface contact and holding power, apply adhesive using a 1/4" deep notched trowel over entire surface of the foam board or paneling, 1" in from the edges. This method is recommended for all specialty applications where almost immediate holding power is desired. This method will also allow fewer mechanical fasteners (on paneling and drywall applications to flat surfaces).

Application Procedures

- All surfaces must be clean, dry, free of dirt, oil film, dust and release agents. All surfaces must also be smooth, plumb and true to dimension. Walls having excess irregularities must be made level and plumb by either filling in the low spots and/or removing high spots. All masonry and plaster must be swept and wiped down thoroughly. All painted surfaces must be scraped or rough sanded to insure a good bond. New concrete must be allowed to cure 28 days prior to using adhesive and must be free of any release agents.
- Application Time: Apply no more adhesive than can be bonded within 25 minutes.
- After adhesive application, position board in place and press firmly over entire surface. Immediately pull away for approximately 2 minutes to air dry (flushed off*). Repeat as needed. Reposition and press firmly in place to insure proper contact. Use temporary bracing or blocking until adhesive sets. (See specific details regarding mechanical fasteners.)
- Adequate ventilation must be provided when used in all interior applications.

*Note: it is highly recommended for all applications that the adhesive be "flushed" off. (Panels should be pulled away for 2-3 minutes to insure adhesive contact, fast grab and quick set.) Repeat as needed.

Bonding Foam to Block or Concrete Walls and Ceilings

Using one of the application methods mentioned, press foam board tightly to substrate within 10 minutes after adhesive has been applied. Use firm pressure over entire surface of board. Then pull away for approximately 2 minutes to air dry. Reposition foam and press firmly over entire surface to insure proper bond. To speed initial bonding power, repeat procedure as needed. Be sure to butt all joints tightly and plan application so that the joints of the finish material do not coincide with the foam joints. When bonding foam to ceilings, supplemental mechanical fasteners are required to hold foam in place until adhesive sets. Use at least 4-6 fasteners per eight foot sheet of board.

Supplemental mechanical fasteners are required when the wall or foam board exceeds eight feet in height for all wall applications.

Bonding Drywall, Vinyl Board or Paneling to Foam

When bonding "pre-finished" materials to foam, it is recommended that the extruded bead method or trowel method be use. For bonding drywall to foam, use one of these two methods along with the adhesive Nail-On Attachment Method. Press drywall firmly in place and perimeter nail 16" O.C. in the field of the board. Use permanent mechanical fasteners at least twice as long as the thickness of the foam to securely fasten drywall to the concrete or block wall. When bonding vinyl board or paneling to foam, it is recommended that these pre-finished materials be "bowed" or pre-curved 24 hours prior to installation. Position boards within 10 minutes after adhesive application and press firmly into place. Pull board away to air dry for approximately 2 minutes. Repeat as needed. Reposition board and press tightly with firm pressure over entire surface. Mechanical fasteners are required at the top and bottom of the panels where moldings will be used. Temporary bracing or fasteners may be needed for at least 24 hours until adhesive sets. Excess adhesive should be removed immediately.

Bonding Vinyl Covered Gypsum Board or Paneling to Wood or Metal Studs

Apply a 1/4" to 3/8" continuous bead of adhesive to each stud or framing member starting 3" down from the top of the stud and ending 3" from the bottom. Pre-decorated panels should be "bowed" or pre-curved prior to installation. Place panels in proper position and press firmly to framing members. Pull away to air dry for approximately 2 minutes. Repeat as needed. Reposition panel and press firmly along each adhesive bead to ensure proper contact. Use mechanical fasteners at the top and bottom of each pre-decorated panel. Use of temporary bracing for at least 24 hours may be necessary until adhesive sets.

Insulated Panels for Low Temperature Structures

(Includes walls, ceilings, and floors)
Follow detailed installation procedures of the panel manufacturer when using adhesive. In all cases, adhesive should be "flushed off" to insure maximum grab and bonding power, especially in enclosed locations.

Tilt Wall Construction

Using either the Spot Method or the Trowel Method, install each 2' X 4' foam panel horizontally. Be sure to stagger all joints. Mechanical fasteners are required for this application and should be installed at each corner of a 2' X 4' section and at least one in the field or center of each foam panel. Caution—all concrete walls must be allowed to cure at least 28 days and must be free of any "release agents" prior to using adhesive.

COVERAGE

- 1/4" BEAD: approx. 32 lin. ft./10.5 Oz.
approx. 89 lin. ft./29 Oz.
approx. 390 lin. ft./Gal.
3/8" BEAD: approx. 14 lin. ft./10.5 Oz.
approx. 40 lin. ft./29 Oz.

SPOT METHOD: approx. 200 sq. ft./Gal.
TROWEL METHOD: 50-60 sq. ft./Gal.
(Using 1/4" notched trowel)

LIMITATIONS

When using **BOSS® 347** in enclosed areas or areas where surface temperatures exceed 90°F prior to curing, it is highly recommended that the adhesive be "flushed" off to prevent solvent and vapor build up.

CAUTION

DANGER! EXTREMELY FLAMMABLE. Harmful or fatal if swallowed. Contains Hexane and other Petroleum Distillates. Prevent build up of vapors. Vapors may cause flash fires. Use only in areas of cross ventilation. Open all windows and doors. Keep away from heat, sparks and open flames. DO NOT smoke. Avoid prolonged breathing of vapors. Avoid skin contact. Do not take internally. IN CASE OF EYE CONTACT, flush immediately with plenty of clean water for at least 15 minutes. IF SWALLOWED, DO NOT induce vomiting. Consult physician immediately. Overexposure to vapors is irritating to eyes and respiratory tract, may cause headaches, dizziness, and is anesthetic. If overcome by vapors, remove to fresh air. KEEP OUT OF REACH OF CHILDREN.

STORAGE AND SHELF LIFE

When stored in a cool, dry place at room temperature (70°F to ±5°F), **BOSS® 347** has a shelf life of 12 months from date of shipment. Containers should always be kept sealed when not in use. In cold weather, product should be kept at room temperature 24 hours prior to use.

USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The users exclusive remedy and the suppliers sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe any patents.

MADE IN U.S.A.

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