

BOSS® 346 Sub-floor Construction Adhesive

TYPICAL PROPERTIES

Type	Synthetic Rubber and Resins
Color	Tan
Solids by Weight	65%
Flash Point	0°F
Flammability (See Cautions on Label)	Extremely Flammable While In Use
Toxicity	Toxic Only If Swallowed
Open Time at 70°F (21°C) and 50% RH	30 minutes
Cure Time	24 hours
Application Temperature	0°F to 100°F
Service Temperature	-20°F to 150°F
Freeze-Thaw Stability	Will Not Freeze
Clean Up	Mineral Spirits or Paint 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® 346 Sub-Floor Construction Adhesive is an exclusive high performance formulation developed primarily for glued-floored systems. Proven by professionals for its unsurpassed quality, strength and versatility in general construction use, this adhesive has built a reputation of being stronger than nails with qualities like water resistance, long term aging, noise reduction, reduced floor squeaks and reduced installation costs. The adhesive is light tan in color which allows it to blend well with all wood products and it is waterproof, weatherproof, and unaffected by freezing. Because of its fast grab and rapid bond development, it will set to a tough resilient bond stronger than wood itself which makes it readily adaptable to most construction situations.

BOSS® 346 is highly recommended for bonding all wood to wood assemblies, dry, wet or frozen and a wide variety of building materials to wood, plaster, masonry and other structurally sound surfaces. Materials which can be bonded include drywall, paneling, hardboard, particle board, tube enclosures, cork, ceramic tile, quarry tile, slate, marble, concrete, imitation brick and stone, wood trim, metal and plastic insulation hangers, and many other similar materials. In addition, this product also exhibits good adhesion to certain grades of pressure treated lumber when used properly. This premium product was designed to give the best features considered important in a high quality interior/exterior construction adhesive that is easy to use by both the professional and the do-it-yourselfer.

USES

BOSS® 346 can be used for most interior and exterior construction projects either on the job or the production line. Developed for on-site bonding of tongue and groove plywood to wood joists in Glued-Floor Systems, it is widely used on single-family homes all over the country, including apartments, schools, townhouses and commercial buildings.

BOSS® 346 helps eliminate builders' headaches like callbacks to repair floors with squeaks, bounce and nail popping. It also reduces nailing up to



50%, as well as other material and labor costs. Lower stress grade lumber may be used because the adhesive adds rigidity. The adhesive will also permit extended spans where local building codes allow. Because the glue bond is so strong, floor and joists have increased stiffness from 10% to 90% as compared with conventional floor construction. Actual increase in stiffness is considerably higher when tongue and groove joints are glued. In addition, the use of this adhesive offers better stress distribution over a much area to provide better wind and tornado resistance.

BOSS® 346 provides fast, easy application over a wide range of temperature and weather conditions on green, damp or frosty lumber without loss of bond. When used properly, it is particularly effective in bonding minor framing irregularities and bridging gaps as much as 3/8" which is common in today's construction market. Due to the product's fast grab and rapid strength development, it is widely used in the mobile home industry and the modular and pre-fab construction industry where time, materials, labor and quality are most important. Jobs are completed faster, easier and with better stability using conventional caulking guns or automatic extrusion equipment.

This all-purpose adhesive is ideal for all home remodeling and repair maintenance from building complete additions to hanging wallboard to studs or repairing ceramic tile. Other applications include roof sheeting, box beams, trusses, plywood siding, counter tops, and even furniture repair. It is also the ideal product for the installation of insulation hangers to help support all types of insulation. **BOSS® 346** provides a greater feeling of solid, substantial construction for whatever the need may be. **DO NOT USE ON EXPANDED OR EXTRUDED POLYSTYRENE FOAM.**

FEATURES

- Fast grab, high strength
- Reduces installation costs considerably
- Stronger than wood itself
- Reduces noise and sound transmission
- Reduces floor squeaks
- Increases strength in minor framing irregularities
- Reduces nail pops and callbacks
- Allows single layer floor construction
- Bridges gaps up to 3/8"
- Bonds to most building materials
- Permits extended spans
- Waterproof, weatherproof, and permanent

HOW TO USE

Application Procedures

All surfaces must be free of standing water, snow, dirt, mud, oil and other foreign materials. Apply adhesive by extrusion, either from cartridge or by automatic extrusion equipment. Be sure to cut spout to desired bead size and puncture seal on cartridge before using. NOTE: Adequate ventilation must be provided when used in all interior applications.

Glued Floor System (Tongue & Groove)

1. Chalk a line across joists at 4' intervals from wall to act as a guide for edge alignment of sub-floor and as a boundary for spreading glue.
2. Caulk a bead approximately 3/8" in thickness to each joist to ensure proper adhesion. In some cases, if joists are irregular, a 1/2" bead will allow automatic bridging or shimming up to 3/8". If contact is close, a 1/4" bead is sufficient. Also, adhesive should be applied to all sill and framing members. On wide areas, apply only enough adhesive so that each component can be positioned and nailed within 15 minutes to ensure maximum bond.
3. Position first panel with tongue side wall and press firmly in place so that adhesive can be spread to desired contact areas and nail into place.
4. Apply tow beads of glue on joists where panel ends butt, to ensure each end is glued. Panel joints should not be tight.
5. After first row has been completed, apply a 3/16" to 1/4" bead to the grooved channels of each succeeding row, allowing approximately 1/16" for expansion due to moisture and 3/32" at the tongue and groove edges.
6. Use a wood block to protect groove edges when tapping panels in place.
7. Complete nailing within 15 minutes after panel has been positioned.
8. Remove any excess adhesive with a putty knife or wood scrap.
9. No cross bridging is required between joists.

Bonding Conventional Square Edge Sub-Floor

Use same basic procedures as for bonding Tongue & Groove Sub-Floor, only in this case, apply adhesive on all blocking and sill members. Wood blocking is required under plywood joints spanning between joists.

Lamination of Sub-Floor Sheets

When using conventional underlayment installation practices, be sure all sub-floor sheets are clean and dry. Apply a 3/16" to 1/4" bead around the perimeter of sheets approximately 1" in from the edges. Use either an "X" bead or parallel beads 12" apart across the field of the sheet. Do not smear adhesive. Underlayment sheets should then be positioned without sliding

and nailed within 15 minutes. Be sure to allow space between sheets for expansion. Perimeter nailing is required in all cases with enough field nails to ensure maximum bond. Be sure not to drive nails into joists, but only into the sub-floor.

Bonding Exterior Sheeting

Apply 1/4" to 3/8" bead of adhesive to all framing members. Where sheets butt, apply 2 beads 1/8" to 1/4" in thickness. Position each sheet firmly within 15 minutes and nail into place.

Bonding Interior Pre-Finished Panels

Be sure all panels are "pre-bowed" prior to application. A 1/4" to 3/8" bead of adhesive should be caulked to all wood or metal framing members. Place panel in proper position and press firmly to framing members. If bond loosens at edges or tends to bow from the center, use temporary blocking or nails for approximately 24 hours until adhesive sets. Use nails only at top and bottom of panels where moldings will cover the nails.

Bonding Drywall to Wood or Metal Studs

A continuous vertical 3/8" bead should be caulked starting 3" to 6" from the bottom of each stud. Position drywall and perimeter nail. No nails are required in the field, unless some studs give evidence of being warped and prevent adhesion to drywall. Should this occur, permanent nailing is required. When bonding to metal studs, one screw is required in the field on every other framing member.

Laminating Wallboard to Wallboard

Apply adhesive using 3/8" "zig-zag" beads spaced 12" apart on the face ply. Position face ply to base ply and perimeter nail with mechanical fasteners. Mechanical fasteners are required in the field of each face ply for all ceiling applications

LIMITATIONS

Do not use on unlined expanded or extruded polystyrene plastic foam. Do not use in areas where temperatures at the glue-line may exceed 150°F. Do not dilute or otherwise modify adhesive in any way.

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.

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

SPECIFICATIONS

BOSS® 346 Sub-Floor Construction Adhesive fully meets or exceeds the following specifications: tested and approved according to HUD-FHA Use of Materials Bulletin No. 60, AFG-01, ASTM D-3498, ASTM C-557, tested in accordance with ASTM E-84 for surface burning characteristics, ICBO—Research Report No. 2769, B.O.C.A.—Research Report No. 78-25, conforms to Canadian CGSB 71-GP-26M Specifications.

CAUTION

DANGER! EXTREMELY FLAMMABLE. Harmful or fatal if swallowed. Contains Petroleum Distillates, Toluene and Ethyl Alcohol. 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.

PACKAGING

BOSS® 346 is available in 29 Fl. Oz. cartridges and 5 gallon pails.

STORAGE AND SHELF LIFE

When stored in a cool, dry place at room temperature (70°F to ±5°F), **BOSS® 346** 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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