



P R O D U C T I N F O R M A T I O N

EFA

Engineered Flooring Adhesive

A High Quality, Single Component Urethane

PRODUCT DESCRIPTION

Bostik's EFA, Engineered Flooring Adhesive, is a high-quality, single component, moisture cure urethane adhesive designed for dimensionally stable wood flooring such as engineered wood and 5/16" parquet floor installations. It is specially formulated for high bond strength and flexibility, but when taken up with a pry bar, tears away much easier than any other urethane; a feature that greatly reduces labor charges. EFA contains no water or chlorinated solvents, and will not cup or end lift even the most sensitive hardwood flooring products.

FEATURES & BENEFITS

- Contains No Water...will not cause cupping and end-lifting, is freeze/thaw stable.
- Wet Lay...no flash time required.
- Spreads and Trowels Easily...feels and spreads like a latex.
- Very Economical...priced like a latex.
- Fast Cure Rate...quick turnaround.
- Waterproof Adhesive...once cured, bond is not effected by moisture.
- VOC Compliant...can be sold in all 50 states.
- Low Odor...virtually odorless.

PRODUCT USES

Bostik EFA adheres to 3-ply and 5-ply engineered wood flooring, acrylic impregnated, plywood subfloors and 5/16" parquet wood flooring. **NOTE: EFA is not suitable for solid glue-down installations.** Use EFA over all substrates common to hardwood flooring installations including: concrete, plywood, particle or chip board (underlayment grade), well-bonded vinyl, ceramic, above-grade cutback, terrazzo, gypsum underlayments (dry, above grade), cement patch/underlayments and radiant heat flooring.

LIMITATIONS

- This adhesive will reduce the amount of water vapor transmission but will not prevent moisture related damage.
- Do not set flooring into adhesive that has a dry skin.
- Do not wait for adhesive to flash. Use Wet-Lay Installations only.
- Slab temperature should be between 50°F and 95°F.

CHEMICAL & PHYSICAL PROPERTIES

VOC	88 grams per liter
Flash Point	170°F
Application Temperature	50°F to 95 °F
Tensile Strength	190 psi
Elongation at Break	45%
Odor	Mild
Service Temperature	20°F to 120 °F
Viscosity	275,000 cps
Shelf Life	One Year
Color	Beige
Freeze/Thaw	Stable
Weight per Gallon	9 lbs.
Shear Strength, Oak/Concrete	165 psi
Water Vapor Permeability, gm/m -- 24 hr. -- mmHg	4.3 x 10 ⁻⁴

- If there are any moisture-related concerns, completely remove cutback adhesive residue by sandblasting, shotblasting or scarifying.
- Do not use on wet, contaminated or friable substrates.
- Do not use over concrete treated with sealers or curing compounds.
- Do not use with solid strip or plank flooring.
- Do not expose to alcohol or lacquer thinner.
- Do not use over hydrostatic head.

INSTALLATION

Read and understand data sheet completely before beginning installation. Follow industry standards and floor manufacturer's recommendations for subfloor moisture, design, layout and application of flooring material. Always test for, and prevent, excessive moisture and/or alkali according to flooring manufacturer's directions. **NOTE: Do not install solid wood with this adhesive.**

SUBFLOOR PREPARATION

1. All surfaces must be structurally sound, clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers, and all other surface contaminants that may inhibit proper bond.
2. Maximum floor variation is 1/8" in 10 feet. Repair surface areas requiring patching or leveling with portland cement-

based materials such as Bostik's Floor Patch 101, Fast Patch 102 or Self-Leveling Underlayment 103.

APPLICATION

1. EFA is designed for **Wet-Lay Installations Only**. With the Wet-Lay method, you do not allow adhesive to flash. Trowel adhesive and immediately begin installing wood.
2. Secure a starter row by wedging or face nailing.
3. Step back from starter row and begin spreading adhesive with a suitable trowel (see Recommended Trowel Chart). Spread only enough adhesive to be covered with flooring within 45 minutes. If too much adhesive is spread, and wood cannot be installed within 45 minutes, the product will begin to set up and adhesive transfer will be jeopardized. **Do not set flooring into adhesive that has a dry skin.**
4. After three to four rows of flooring is installed, tape rows together with removable 3M blue masking tape to prevent floor from moving.
5. Step back a few feet, apply more adhesive, and repeat steps 3 & 4.
6. Flooring that is not flat must be weighted to insure good contact. Additional adhesive may be applied to fill voids.
7. As you work, immediately clean any adhesive off pre-finished (non-wax) flooring with Bostik Hand & Tool Towels, Bostik AR 2000 or mineral spirits (be careful not to harm finish).
8. If you must walk on the floor, secure rows with blue tape and step carefully.
9. When installation is complete, use wedges to hold the floor tight.
10. Roll floor with a 100 lb. roller to insure transfer of adhesive.
11. EFA will begin to hold flooring in about 8 hours, depending on humidity and temperature. Let adhesive cure 16 hours before exposing it to heavy traffic, and remove wedges prior to installing molding.

CLEAN UP

Immediately clean any adhesive on pre-finished (non-wax) flooring using Bostik's Hand & Tool Towel (towel will not harm finish), or with a soft cloth and mineral spirits (be careful not to harm finish). Do not allow mineral spirits to sit on hardwood surface. Clean tools with Bostik's Hand & Tool Towel or mineral spirits before adhesive cures. Removal of cured adhesive from pre-finished flooring, skin, tools and equipment is very difficult.

LIMITED WARRANTY: All statements, technical information, and recommendations set forth herein, are based on tests which Bostik Findley believes to be reliable. However, Bostik Findley does not guarantee their accuracy or completeness. The buyer should conduct his/her own tests of this product before use to determine proper preparation technique and suitability for proposed application. Any sale of this product shall be on terms and conditions set forth on Bostik Findley's order acknowledgement. Bostik Findley warrants that the product conforms with Bostik Findley's written specifications, and is free from defects. BOSTIK FINDLEY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE FOR THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK BE LIABLE FOR DIRECT, CONSEQUENTIAL, ECONOMIC OR OTHER DAMAGES.

STORAGE/SHELF LIFE

Store in a clean, dry, warm area to ensure ease of application. Shelf life is one year from date of manufacturing.

TO RE-SEAL PARTIALLY USED CONTAINERS

Close Container:

- Cover opened pail with 2 pieces of plastic.
- Secure lid tightly to pail.
- Carefully turn pail upside down (the 2 pieces of plastic act as "bond breakers" preventing the adhesive from bonding the lid shut).

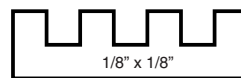
Re-Open Container:

- Carefully turn pail right side up.
- Remove lid.
- Carefully cut and discard cured adhesive and plastic from top of pail.
- Any uncured material may be used.

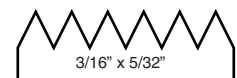
PACKAGING

EFA is available in 5 gallon (18.9 liter) and 3.5 gallon (13.23 liter) pails. For the name of a distributor near you, contact a Bostik Customer Service Representative at 1-800-726-7845.

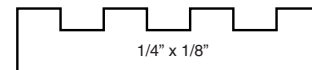
Recommended Notched Trowel for Maximum Performance*



1/8" x 1/8" Square Notch
Finger Block Parquet
Coverage: 80 sq. ft./gallon



3/16" x 5/32" V Notch
3-ply & 5-ply Engineered Plank <1/2"
Coverage: 50 sq. ft./gallon



1/4" x 1/8" Square Notch
≥1/2" Engineered Plank
Coverage: 40 sq. ft./gallon

***85% Coverage Is Recommended For Engineered Woods.**

WORLD HEADQUARTERS

 **BOSTIK FINDLEY**
Middleton, MA 01949
800/7-BOSTIK (800/726-7845)
or 888/592-8558



TECHNICAL SERVICES

800/523-6530

MANUFACTURING LOCATIONS

Temecula, CA 92590
Conyers, GA 30207
Twinsburg, OH 44087