



October 6, 2004

Mr. Glen Ehrhardt  
Harvest Timber Company  
Post Office Box 59  
Lakebay, WA 98349

**RE: Installation Testing with use of Bostik's BEST®:  
"Pioneer Wood Authentic American Plank Flooring"**

Dear Glen,

We have evaluated the samples of **Pioneer Wood Authentic American Plank Flooring** that were shipped to our Middleton, MA facility. Below are our conclusions in regards to here mentioned samples.

For a successful installation, Bostik recommends **Pioneer Wood Authentic American Plank Flooring** be installed utilizing a combined glue & nail down application as described below:

- Adhere flooring to a plywood subfloor with Bostik's Best® urethane wood flooring adhesive in conjunction with an appropriate nail down schedule according to industry standards (NWFA, NOFMA).

Please refer to the Bostik's Best datasheet for proper application instructions.

Nail down schedules can be found within technical installation instructions provided by both the National Wood Flooring Association (NWFA, [www.NWFA.org](http://www.NWFA.org)) and The Wood Flooring Manufacturers Association (NOFMA, [www.NOFMA.org](http://www.NOFMA.org)).

If you have any further questions, please feel free to call me at (978) 750-7365.

Best regards,

BOSTIK, [www.bostikfindley-us.com](http://www.bostikfindley-us.com)

A handwritten signature in black ink that reads 'John Burgoyne'.

John Burgoyne  
Hardwood Product Manager  
Flooring Group

CC: S. Lima, S. Portman and R. Tredwell  
(L:/Bluette/Harvest Timber Company Letter)

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# URETHANE ADHESIVES

## BOSTIK'S BEST



Bostik's Best is a one-part, trowel-applied, moisture-cure, urethane adhesive. Once cured, its superior elastomeric properties provide a tough, flexible, tenacious bond to a variety of surfaces. The elastomeric characteristics of Bostik's Best allow the adhesive to move with wood as it expands and contracts. This scientifically-formulated adhesive is not affected by

exposure to moisture or water. Bostik's Best contains no chlorinated solvents or ozone depleting chemicals. It complies with all current state and federal regulations for Volatile Organic Compounds (V.O.C. Compliant). Bostik's Best is currently the number one selling urethane in the hardwood market.

### FEATURES & BENEFITS

- Recommended by Most Hardwood Manufacturers.
- Contains No Water...will not cause cupping or end-lifting.
- Freeze/Thaw Stable.
- Low Odor.
- V.O.C. Compliant
- For Use in Above, On and Below Grade Installations.
- Can be used to install all types of wood flooring including solids, as well as ceramic tile, marble and stone inlays for light commercial and residential applications.
- Offers Vapor-Retarding Characteristics to Wood Flooring Installations. (see Chemical & Physical Properties).
- Tenacious Bond.
- Remains Elastomeric; Moves with Expanding/Contracting Wood.
- Set with Wet-Lay or Walk-On-Work Method of Installation.
- Tacky Consistency Holds Down Flooring with Normal Bow and Bridges Minor Subfloor Variations.
- Waterproof Adhesive.
- High Solids Content Results in Greater Adhesive Coverage.
- May be Shipped via Air Freight.
- Contains No Chlorinated Solvents.



INSTALLATION VIDEO AVAILABLE  
Available in English & Spanish

### BOSTIK'S BEST & BST TEMPERATURE/RELATIVE HUMIDITY CHART

Temp.		HUMIDITY				
		40%	50%	60%	70%	80%
60°F	Tack	120 Minutes	110 Minutes	100 Minutes	90 Minutes	80 Minutes
	Open	3.5 Hours	3.5 Hours	3.5 Hours	3 Hours	3 Hours
65°F	Tack	110 Minutes	100 Minutes	90 Minutes	80 Minutes	70 Minutes
	Open	3 Hours	3 Hours	3 Hours	3 Hours	2.5 Hours
70°F	Tack	100 Minutes	90 Minutes	80 Minutes	70 Minutes	60 Minutes
	Open	3 Hours	3 Hours	3 Hours	2.5 Hours	2.5 Hours
75°F	Tack	90 Minutes	80 Minutes	70 Minutes	60 Minutes	50 Minutes
	Open	3 Hours	2.5 Hours	2.5 Hours	2.5 Hours	2.5 Hours
80°F	Tack	80 Minutes	70 Minutes	60 Minutes	50 Minutes	40 Minutes
	Open	3 Hours	2.5 Hours	2.5 Hours	2.5 Hours	2 Hours

NOTE: This chart is for reference only.  
Actual times may vary dramatically based on job site conditions.

### CHEMICAL & PHYSICAL PROPERTIES

ASTM-E96 Value	.6 grams psm - 24 hr - mmHg.
Initial Tack Time	Begins about 1 hour and will remain tacky for an additional 2 hours at 70°F and 40% relative humidity.
Open Time*	About 3 hours at 70°F and 40% relative humidity.
Application Temperature	50°F to 100°F
Service Temperature	Range is -40°F to 150°F.
Cure Time	Higher humidity and temperature will accelerate cure. Under normal conditions, light foot traffic is acceptable after 8 to 10 hours, normal traffic after 24 hours. Based on ASTM E-84 tests: Flame Spread Index is 25.
Flammability	Flash Point 142°F, closed cup.
Flash Point	220,000 cps.
Viscosity	Mild, not easily detectable.
Odor	Beige.
Color	12.66 lbs. per gallon.
Weight	Peel Adhesion (dry)
Peel Adhesion (dry)	(a) to plywood 20 piw
	(b) to concrete 25 piw
Peel Adhesion (wet)	(a) to plywood 18 piw
	(b) to concrete 22 piw
Tensile & Elongation	(a) Modulus at 25% 150 psi
	(b) Elongation at break 125%
Shear Strength to Concrete	(a) 3/4" plywood 250 psi
	(b) 5/16" oak parquet 250 psi
	(c) 3/4" oak shorts 250 psi
Water Vapor Permeability	4.6 x 10 <sup>-4</sup> g/m - 24 hr - mmHg.

\*Refer to Temperature/Humidity Chart.

**PACKAGING:** Bostik's Best is available in soft cartridges (16x30 fl.oz.), 2 gallon (7.6 liters) and 5 gallon (19 liters) containers.

WHAT IS MCU?

### What is a Moisture Cured Urethane (MCU)?

MCU adhesives cure by absorbing a small amount of water vapor. Where does the water vapor come from? Water vapor is present in the air, the wood flooring, and the substrate. It takes about 1 fl. oz. of water to cure approximately 400 ft<sup>2</sup> of urethane.