

BSTURETHANE

Wood Flooring Urethane Adhesive

PRODUCT DESCRIPTION

BSTurethane™ represents the latest breakthrough in urethane technology offering the exceptional physical and chemical properties of urethanes at water-based prices. BSTurethane is a one-part, trowel-applied, moisture cure urethane with unsurpassed green strength and ridge holding abilities. The adhesive trowels easily and once cured, is not effected by moisture or water.

FEATURES & BENEFITS

- Contains no water
- Trowels easily
- Remains elastomeric; moves with expanding/ contracting wood
- High green strength
- High bond strength and elongation
- Reduces subfloor moisture vapor transmission
- Low cost
- V.O.C. compliant

PRODUCT USES

BSTurethane adheres to 3-ply or 5-ply engineered plank, acrylic impregnated, solid plank-flat milled, shorts, plywood and parquet wood flooring. This adhesive can also be used to install ceramic tile, marble and stone inlays for light commercial and residential applications.

Because BSTurethane is a waterproof adhesive, it offers some vapor-retarding characteristics to wood flooring installations. Use BSTurethane over all substrates common to hardwood flooring installations including: concrete, plywood, particle or chip board (underlayment grade), well bonded vinyl, ceramic tile, cement backer board, gypsum patch/underlayments (dry, above grade), cement patch/underlayments, radiant heat flooring, cutback residue (refer to Limitations), and terrazzo.

CHEMICAL & PHYSICAL PROPERTIES

V.O.C. Compliant:	100 grams/liter
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
Flammability:	Based on ASTM E-84 tests: Flame Spread Index is 25
Flash Point:	142°F, closed cup
Viscosity:	220,000 cps
Odor:	Mild/not easily detectable
Color:	Brown
Weight:	12.66 lbs. per gallon
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%	140 psi
(b) Elongation at break	120%
Shear Strength to Concrete:	
(a) 3/4" plywood	240 psi
(b) 5/16" oak parquet	240 psi
(c) 3/4" oak shorts	240 psi

*Please refer to Temperature/Humidity Chart on back.

LIMITATIONS

- This adhesive will not prevent moisture-related damage to wood flooring installations.
- Humidity affects characteristics of adhesive to a greater degree than temperature. The higher the humidity, the faster the cure.
- Slab temperature should be between 50° F and 100° F during installation.
- Do not use on wet, contaminated, or friable substrates.
- Below-grade installations are limited to engineered plank and foam divided parquet (this is due to limitations in solid wood flooring i.e. lack of dimensional stability).
- Do not use in areas subject to hydrostatic head.
- Do not use over concrete treated with sealers or curing compounds.
- Do not allow light-foot traffic until fully cured; usually 8 to 12 hours.
- Do not use as a leveling material.
- Use as an adhesive for ceramic tile, marble or granite inlays is limited to light commercial or residential applications.
- Do not install solid wood over cutback residue.
- If there are any moisture-related concerns, completely remove cutback adhesive residue by sandblasting, shotblasting or scarifying.

INSTALLATION

Read and understand data sheet completely before beginning installation. **Follow industry standards and wood floor manufacturer's recommendations for subfloor moisture content, design, layout and application of wood flooring materials.**

SURFACE PREPARATION: Surfaces must be clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers and all other surface contaminants. **If there are any moisture-related concerns, or if solid wood is being installed, completely remove cutback adhesive residue by sandblasting, shotblasting or scarifying.** When sandblasting, shotblasting or scarifying, surface texture must be similar to light broom finished concrete. The Blastrac shotblasting method of surface preparation utilizing BT# 1, BT# 2 or BT# 3 (.017" to .028" diameter) shot is recommended. Maximum acceptable floor variation is 1/8" in 10 feet. Surface areas requiring patching or leveling should be done using a portland cement based material (contact Bostik's Technical Service Department for recommendations).

As you work, immediately clean any adhesive on pre-finished flooring with a soft cloth and mineral spirits. (Be careful not to harm finish). If adhesive is cold, place pail in either a warm area or bucket of warm water to improve workability.

APPLICATION

Ensure starter rows are firmly in place by wedging or face nailing. Once initial rows are secure, use adhesive in a Wet-Lay or Walk-On-Work method of installation.

WET-LAY METHOD: Apply adhesive to substrate with suitable trowel. Immediately place flooring onto "wet" adhesive.

WALK-ON-WORK METHOD: Apply adhesive to substrate with suitable trowel and allow it to develop tack (refer to Temperature/Humidity Chart). Install flooring onto "tacky" adhesive.

As you work, immediately clean any adhesive from prefinished flooring with a soft cloth and mineral spirits. (Be careful not to harm finish.)

Rolling is recommended for all installations. Flooring that is not flat should be tacked, weighted, or rolled to ensure proper contact between the flooring and the substrate.

WHERE PLYWOOD SUBSTRATE OVER CONCRETE IS REQUIRED:

Using a 1/4" x 1/4" square-notched trowel to apply adhesive, set 4' x 4' sheets of 3/4" exterior grade plywood into wet adhesive. Score plywood sheets on the backside every 8" to 10" by using a circular saw and cutting one half the thickness of the sheets. Scoring or "kerfing" takes the tension out of plywood and helps prevent possible warping or curling. Allow to fully cure before nailing strip or using BSturethane in a Wet-Lay or Work-On-Work method of installation.

CLEAN UP

Once cured this is the most tenacious adhesive known to the hardwood industry. Immediately clean any adhesive on pre-finished flooring with Bostik Ultimate Adhesive Remover or a soft cloth and mineral spirits. (Be careful not to harm finish.) Do not allow mineral spirits to sit on hardwood surface. Clean tools and equipment with mineral spirits before adhesive cures. Wear rubber gloves when using adhesive. Removal of cured adhesive from pre-finished flooring, skin, tools and equipment is extremely difficult. Use Bostik Ultimate Adhesive Remover for removal of cured adhesive from skin.

Trowel clean-up tip: Before use, cover areas of trowel that are not used to spread adhesive with clear packaging or gray duct tape. After use, simply tear off tape before material cures. Clean remainder of trowel with Bostik Ultimate Adhesive Remover or mineral spirits.

CURING

Keep from light-foot traffic until adhesive is fully cured; usually 8 to 12 hours.

STORAGE/SHELF LIFE

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

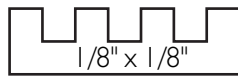
- Carefully turn pail right-side-up.
- Remove lid.
- Carefully cut and discard cured adhesive and plastic from top of pail.
- Any uncured material may be used.

PACKAGING

Size	Qty/Pallet	Wt/Pallet
16-30 fl. oz. soft cartridges	45 cases/pallet	2,070 lbs.
1 gallon (3.8 liters) 4/case	45 cases/pallet	2,350 lbs.
2.06 gallon (7.8 liters)	64/pallet	1,700 lbs.
5.15 gallon (19.5 liters)	27/pallet	1,790 lbs.

For the name of a distributor nearest you, contact a Bostik Customer Service Representative at 1-888-592-8558.

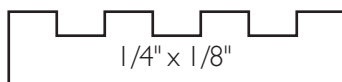
SUGGESTED NOTCHED TROWEL FOR MAXIMUM PERFORMANCE



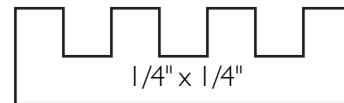
1/8" x 1/8" Square Notch
Finger Block Parquet
Coverage: 80 ft²/Gallon



3/16" x 5/32" V Notch
3 ply and 5 ply Engineered Plank
Coverage: 50 ft²/Gallon



1/4" x 1/8" Square Notch
> 1/2" Engineered Plank & 3/4" Parquet
Coverage: 40 ft²/Gallon



1/4" x 1/4" Square Notch
Flat Milled Solid & Shorts or Plywood
Coverage: 35 ft²/Gallon

TEMPERATURE/RELATIVE HUMIDITY CHART

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

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



Middleton, MA 01949
(800) 7-BOSTIK/(800) 726-7845

PLANT LOCATIONS

Temecula, CA 92590
Twinsburg, OH 44087
Conyers, GA 30207
Paulsboro, NJ 08066



LIMITED WARRANTY

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