



Bostik

HARDWOOD INSTALLATION PRODUCTS

PATCHES/UNDERLAYMENTS

MOISTURE/SOUND PROTECTION MEMBRANES

ADHESIVES

CLEANERS/SPECIALTY/TROWELS





WHEN IT COMES TO HARDWOOD INSTALLATION SOLUTIONS, THE BEST PRODUCTS COME FROM THE FIRST NAME IN THE INDUSTRY.

For more than a century Bostik has stood for high quality adhesives, sealants and lubricants. Founded in 1889 as the Boston Blacking Company, Bostik has evolved to become one of the world's largest producers of adhesives and sealants. Today, Bostik is recognized for its leadership in the development and manufacturing of advanced adhesive systems serving industries around the globe.

Bostik is proud of its reputation for developing innovative, technological solutions for residential and commercial installations. In the mid 1980s we pioneered the world's first moisture-cured urethane adhesive for hardwood flooring. Today, our line of moisture-cured urethane adhesives is the one most specified by architects and most preferred by contractors for all types of wood installations.

Bostik® Hardwood Products is a comprehensive line of patches/underlayments, moisture vapor and sound protection membranes, adhesives, tools, cleaners and specialty products. We have the expertise to help you achieve the highest quality hardwood installations – from solids to engineered; above, on, or below-grade.



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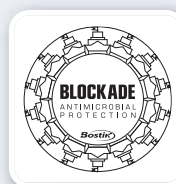


Our Green Mission

As a global leader in adhesives, coatings and sealant technologies, Bostik continuously strives to commercialize products that minimize environmental impact and promote the health and well being of our customers. Bostik shall demonstrate these objectives by achieving compliance with the most rigorous standards set forth by industry-recognized authorities. All the products featured in this catalog are LEED-compliant.



To learn more about our **GREEN MISSION** visit us at www.greenmission.bostik-us.com or to order one of our **LOW VOC Product Portfolios** email us at contactus@bostik-us.com.



Each product displaying Bostik's Blockade™ antimicrobial protection logo contains an agent which inhibits the growth of bacteria, mold, or mildew on the surface of the dried adhesive/membrane; the dried adhesive/membrane resists stains caused by mold. To obtain specific test information by product, please contact Bostik's Technical Service Department at 1-800-7BOSTIK.

WHAT IS MCU?

What is a Moisture Cured Urethane (MCU)?

Moisture Cured Urethanes are liquids that, when exposed to "moisture," turn into a flexible solid polymer.

Where Does the Moisture Come From?

Moisture is present in the air, the wood flooring, and the substrate. It takes about 1 fl. oz. of water to cure approximately 400 ft² of a moisture cured urethane.

SURFACE PREPARATION





SURFACE PREPARATION



SL-150™ Self-Leveling Underlayment



SL-150™ is a high compressive strength, self leveling, cement-based underlayment used to repair, smooth and level concrete as well as existing ceramic, terrazzo or approved plywood subfloors prior to the installation of carpet, vinyl, VCT, laminate, solid, bamboo and engineered hardwood flooring, ceramic or natural stone.

SL-150 is suitable for thickness from feather-edge to 1" thick; or from 1/2" to 5" thick when mixed as designed with pea gravel. Use below-, on-, or above-grade. Use SL-150 in smaller installations where it may be mixed by hand; or use an underlayment pump to quickly cover large jobs.



UNIVERSAL PRIMER



Designed for use with SL-150™ Self Leveling Underlayment. Use over concrete, approved plywood substrates, cement backer board, ceramic tile, marble, granite and terrazzo.



FAST PATCH 102™



Fast Patch 102™ is a fast-setting, polymer-modified, cement-based patch. Simply mix with water to repair cracks and holes and uneven surfaces from feather-edge up to 1/2" thick in a single application. Use Fast Patch 102 prior to the installation of carpet, wood, ceramic tile and stone floors. It can be applied over concrete, existing ceramic tile, exterior-grade plywood and well-bonded vinyl tile.



ULTRAFINISH™



UltraFinish™ is a fast-setting, latex-fortified, Portland cement-based patch for interior use prior to the installation of hardwood, ceramic, carpet, vinyl, or rubber flooring. This product may be used to skim coat or feather-edge up to 1 inch deep in one application. Floor covering can be installed typically in as little as 15-20 minutes over concrete, wood, ceramic and quarry tile without the requirement of priming or the use of a liquid additive. When mixed with Bostik's 425 Multi-Purpose Acrylic Latex Admixture instead of water, UltraFinish can be used as an embossing leveler.

TYPICAL PHYSICAL PROPERTIES

Heal/Wet Edge Time	20 minutes
Initial Set	1 hour 30 minutes @ 70°F
Final set	2 hours @ 70°F
Compressive Strengths	
4 hours	1500 psi
24 hours	3500 psi
7 day	5000 psi
28 day	5500 psi
VOC Compliant	Yes (0 g/L)



DVD or VHS

Packaging

SL-150 is available in 50 lb. bags
Installation Video viewable at: www.bostik-us.com/markets/flooring/hardwood-flooring/products/default.html#SL-150

Packaging

Available in 4x1 gallon containers.

Pot Life	Approx. 60 minutes
Compressive Strengths	
7 day	>3400 psi
28 day	>4900 psi
Cure Time	8 to 9 hours @ 70°F
VOC Compliant	Yes (15 g/L)

Packaging

Floor Patch 102 is available in 25 lb. (11.34 kg) bags.

Pot Life	Approx. 15-20 minutes
Final Set	Approx. 15-20 minutes
VOC Compliant	Yes (0 g/L)

Packaging

UltraFinish is available in 4x10 lb. (4.53 kg) bags.

STARTER ROW



Installing a Starter Row

Contractors generally use carpet tack strip or wood secured with masonry nails as a starter row. The starter row provides a stationary point to push against so the flooring doesn't move during the installation.

BLUE TAPE



Taping Rows Together

After several rows of flooring are installed, tape them together with removable 3M blue tape. This will allow you to walk on your work without having floor boards move around.

MOISTURE/SOUND PROTECTION MEMBRANES





MOISTURE VAPOR & SOUND PROTECTION



MVP4® MOISTURE VAPOR PROTECTION

Specially Formulated to Reduce Moisture Vapor Transmission



MVP4 Moisture Vapor Protection is a one-part, trowel applied, elastomeric, moisture-cure urethane membrane designed to:

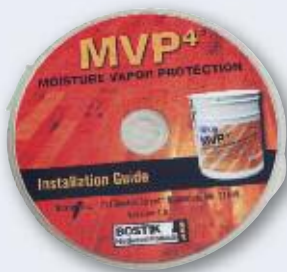
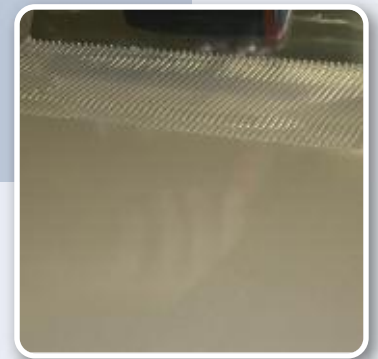
1. Reduce Moisture Vapor Transmission from the subfloor.
2. Create a Noise Reduction Barrier over the substrate—Peace Noise Reduction.
3. Establish an Anti-fracture Membrane that can bridge subfloor cracks up to 1/8" prior to or after installation.
4. Contains Bostik Blockade™ antimicrobial agent providing built-in protection to inhibit the growth of bacteria, mold and mildew on the surface of the dried membrane; the dried membrane resists stains caused by mold.

FEATURES & BENEFITS

- MVP4 Peace Noise Reduction achieved an IIC=62 and a STC=61
- May be utilized in both engineered and solid wood floor installations
- Extremely alkaline-resistant
- May be used below-grade for engineered wood flooring installations
- Extremely low odor
- Waterproof
- Freeze/thaw stable
- Contains NO water
- User friendly – trowels very fast
- May be used for residential, commercial and institutional installations

Packaging

MVP4 is available in 5 gallon and 2 gallon pails.



Installation Video

Installation Video viewable at:

www.bostik-us.com/markets/flooring/hardwood-flooring/products/default.html#MVP4

To order DVD, please call 800-7/BOSTIK.

ADHESIVE



Spreading the Adhesive

Using the recommended trowel, spread out approximately three feet of adhesive from the starter row and immediately begin installing the flooring.

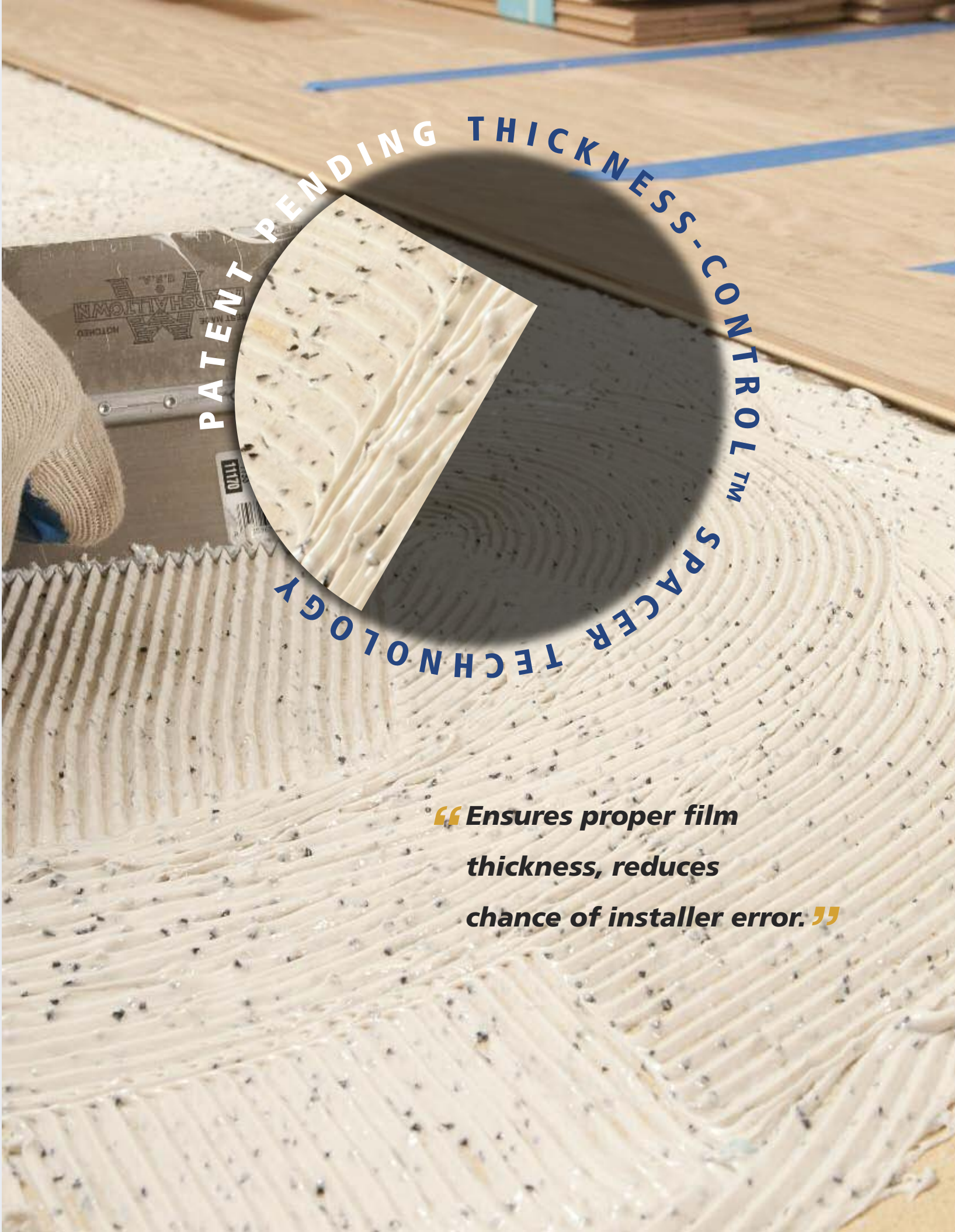
OPEN TIME

OPEN/WORKING TIME CHART				
		HUMIDITY		
TEMP		40%	60%	80%
60°F	Tack	2 Hours	1.6 Hours	1.3 Hours
	Open	3.5 Hours	3.5 Hours	3.5 Hours
70°F	Tack	1.6 Hours	1.3 Hours	1 Hour
	Open	3 Hours	3 Hours	3.5 Hours
80°F	Tack	1.3 Hours	1 Hour	0.6 Hour
	Open	3 Hours	2.5 Hours	2 Hours

Note: This chart is for reference only. Actual jobsite times may vary.

Hot and humid conditions reduce the adhesive's open time, while cold and dry conditions extend the open time. All urethane adhesives should be wet to the touch and transfer to your fingers easily during installation. Do not install wood into adhesive that has skinned over. Scrape it up and apply fresh adhesive.

ADHESIVES



PATENT PENDING THICKNESS-CONTROL™ SPACER TECHNOLOGY

“ Ensures proper film thickness, reduces chance of installer error. ”

URETHANE ADHESIVES CATEGORY 4 IN 1 FORMULATION



Your "Ultimate Solution"



ULTRA-SET® SingleStep™

Hardwood Adhesive, Moisture Vapor Retarder & Sound Reduction

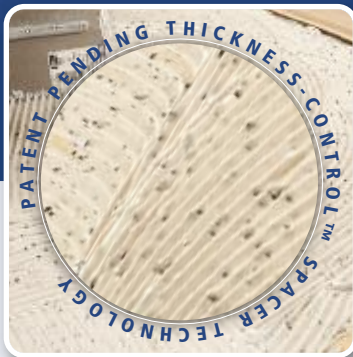


Bostik's Ultra-Set® SingleStep™ is a one-part, trowel applied, tacking, moisture-cure urethane adhesive, moisture vapor and sound reduction membrane. This scientifically formulated adhesive and membrane is very tenacious, has very low moisture permeability, and is formulated with Bostik's patent pending Thickness-Control™ Spacer Technology to ensure proper membrane thickness between hardwood flooring and the substrate. Bostik's Ultra-Set SingleStep does NOT contain any water.

Once cured, Ultra-Set SingleStep will create a tough, flexible, tenacious bond to a variety of substrates for glue-down installations of engineered, solid, and bamboo wood flooring while also forming an elastomeric, urethane membrane designed to reduce moisture vapor transmission from the subfloor; create a noise reduction barrier over the substrate; and establish an anti-fracture membrane which can bridge cracks that can occur in the substrate prior to or after installation (up to 1/8"). Ultra-Set SingleStep's elastomeric characteristics allow the adhesive/membrane to move with the wood as it expands and contracts over the life of the floor. This product has unlimited moisture protection.

FEATURES & BENEFITS

- Easy to spread
- Easy to clean
- Contains Bostik's Blockade™ antimicrobial protection
- Unlimited moisture protection
- Prevents damages caused by subfloor moisture
- Reduces sound transmission
- Exceeds IRC requirements for vapor retarder
- 0 VOC
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water ^{*1}	0.0%
Water vapor Permeability ^{*2}	0.4
Percentage of Adhesive Coverage Required:	
– Engineered	≥ 95%
– Solid	100%
Elongation	> 180%
Open/Working Time in Minutes ^{*3}	90 minutes
Application Temperature	50°F to 100°F
Service Temperature	-40°F to 150°F
ASTM E2179 Increased Impact Insulation	ΔIIC 23 dB
ASTM E492-04 IIC (6" concrete slab with no ceiling)	52 dB
IIC (6" concrete slab with 1 layer 5/8" gypsum board ceiling)	71 dB
Flash Point	≥ 200°F, closed cup
VOC Compliant (SCAQMD Rule 1168)	Yes (0 g/L)
Odor	Mild
Color	White w/black specs
Weight	14.7 lbs/gallon
Cure Time ^{*4}	8 to 10 hours
Concrete Moisture Vapor Limits for subfloor moisture vapor protection ASTM 1869 Calcium Chloride Method ASTM 2179 Relative Humidity Test	No Limit / Dry-to-the-Touch
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch

^{*1} Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.

^{*2} Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.

^{*3} Please refer to the Open/Working Time Chart.

^{*4} Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

Packaging

Ultra-Set® SingleStep™ is available in:
4 gallon pails, 36 pails/pallet
2 gallon pails, 54 pails/pallet (Not sold in Canada)

Test Results

Ultra-Set SingleStep was independently tested in a controlled laboratory environment to measure the IIC (Impact Insulation Class) according to ASTM E492-04 standards installed with 3/8" thick engineered wood flooring over a 6" concrete subfloor with a 5/8" suspended gypsum ceiling, achieved an IIC = 71 and with no suspended ceiling, IIC = 52 and an increase in Impact Insulation ΔIIC = 23.0.





URETHANE ADHESIVES CATEGORY 4 IN 1 FORMULATION

VAPOR-LOCK™

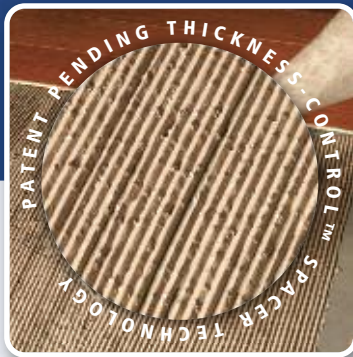
Hardwood Adhesive, Moisture Vapor Retarder & Sound Reduction



Vapor-Lock™ is a new and improved one-part, trowel-applied, rapid tacking, very low permeability moisture-cure urethane adhesive and vapor retarding membrane. This scientifically formulated adhesive/membrane does NOT contain any water, is virtually odorless, and has 0 VOCs. When applied as designed and cured, Vapor-Lock offers a tenacious waterproof bond to a variety of substrates and is not adversely affected by exposure to moisture, water or alkalinity; it can also create a vapor-retarding membrane designed to reduce moderate amounts of moisture vapor transmission from the subfloor and bridge cracks that can occur in the substrate prior to or after installation (up to 1/8"). Vapor-Lock is now available with Bostik's patent pending Thickness-Control™ Spacer Technology to ensure proper membrane thickness between hardwood flooring and the substrate. Vapor-Lock may be used to adhere all engineered, solid, parquet, and bamboo flooring that is designed and recommended in writing by the hardwood flooring manufacturer for glue-down applications. This product has a moisture protection of up to 15 lbs. or 85% RH.

FEATURES & BENEFITS

- Easy to spread
- Easy to clean
- Contains Bostik's Blockade™ antimicrobial protection
- Protects up to 15 lbs. or 85% RH
- Prevents damages caused by subfloor moisture
- Reduces sound transmission
- Exceeds IRC requirements for vapor retarder
- 0 VOC
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water *1	0.0%	
Water vapor Permeability *2	< 0.6	
Percentage of Adhesive Coverage Required:	Membrane	Adhesive
– Engineered	≥ 95%	> 85%
– Solid	100%	> 95%
Elongation	> 180%	
Open/Working Time in Minutes *3	90 minutes	
Application Temperature	50°F to 100°F	
Service Temperature	-40°F to 150°F	
ASTM E2179 Increased Impact Insulation	ΔIIC 21 dB	
ASTM E492-04 IIC (6" concrete slab with no ceiling)	50 dB	
IIC (6" concrete slab with 1 layer 5/8" gypsum board ceiling)	69 dB	
Flash Point	≥ 200°F, closed cup	
VOC Compliant (SCAQMD Rule 1168)	Yes (0 g/L)	
Odor	Mild	
Color	Brown	
Weight	14.7 lbs/gallon	
Cure Time *4	8 to 10 hours	

Concrete Moisture Vapor Limits for subfloor moisture vapor protection	
ASTM 1869 Calcium Chloride Method	≤ 15 lbs/1000 ft ² /24 hrs
ASTM 2179 Relative Humidity Test	≤ 85% RH
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch

*1 Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.

*2 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.

*3 Please refer to the Open/Working Time Chart.

*4 Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

Packaging

Vapor-Lock™ is available in 4 gallon pails, 36 pails/pallet.

Test Results

Vapor-Lock was independently tested in a controlled laboratory environment to measure the IIC (Impact Insulation Class) according to ASTM E492-04 standards installed with 3/8" thick engineered wood flooring over a 6" concrete subfloor with a 5/8" suspended gypsum ceiling, achieved an IIC = 69 and with no suspended ceiling, IIC = 50 and an increase in Impact Insulation ΔIIC = 21.0.



URETHANE ADHESIVES CATEGORY 3 IN 1 FORMULATION



BOSTIK'S BEST®
Wood Flooring Urethane Adhesive and Moisture Vapor Retarder



Bostik's BEST® is a one-part, trowel applied, tacking, moisture-cure urethane adhesive; this advanced scientifically formulated adhesive does NOT contain any water. Once cured, Bostik's BEST is waterproof and is not adversely affected by exposure to moisture or water; its superior properties provide a tough, flexible, tenacious bond to a variety of surfaces. Bostik's BEST's elastomeric characteristics allow the adhesive to move with the wood as it expands and contracts over the life of the floor. When applied as directed for moisture vapor membrane, Bostik's BEST will reduce moderate amounts of moisture vapor transmission from the subfloor and prevent damages to engineered wood flooring caused by subfloor moisture. This product has a moisture protection of up to 12 lbs. or 82% RH.

FEATURES & BENEFITS

- Easy to clean
- Contains Bostik's Blockade™ antimicrobial protection
- Protects up to 12 lbs. or 82% RH for engineered floors
- Prevents damages caused by moderate subfloor moisture
- Exceeds IRC requirements for vapor retarder
- Low VOC
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water *1	0.0%	
Water vapor Permeability *2	< 0.75	
Percentage of Adhesive Coverage Required:	Membrane	Adhesive
– Engineered	> 95%	> 80%
– Solid	N/A	> 95%
Elongation	> 150%	
Open/Working Time in Minutes *3	90 minutes	
Application Temperature	50°F to 100°F	
Service Temperature	-40°F to 150°F	
Flash Point	142°F, closed cup	
VOC Compliant (SCAQMD Rule 1168)	Yes (86 g/L)	
Odor	Mild	
Color	Tan	
Weight	12.66 lbs/gallon	
Cure Time *4	8 to 10 hours	
Concrete Moisture Vapor Limits for subfloor moisture vapor protection ASTM 1869 Calcium Chloride Method ASTM 2179 Relative Humidity Test	≤ 12 lbs/1000 ft²/24 hrs ≤ 82% RH	
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch	

*1 Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.
*2 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.
*3 Please refer to the Open/Working Time Chart.
*4 Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

Packaging
Bostik's Best® is available in:
5 gallon pails, 36 pails/pallet
2 gallon pails, 54 pails/pallet

CARTRIDGE ADHESIVES

BOSTIK'S BEST®
A one-part cartridge, gun-applied, multi-use, moisture-cure urethane adhesive that can be used to install medallions, borders, stair treads and transition strips. This product contains Bostik's Blockade™ antimicrobial protection.



PHYSICAL PROPERTIES

Tack Free Time	90 minutes
Tool/Work Life	70 minutes
Curing Time at 77°F	1.5 to 3 days
Hardness (Shore A)	40-45
Tensile Strength	240 psi
Packaging	
Bostik's Best® is available in 10 1 oz cartridges/24 per case	



URETHANE ADHESIVES CATEGORY 3 IN 1 FORMULATION



BST™

Wood Flooring Urethane Adhesive and Moisture Vapor Retarder



BST™ is a one-part, trowel applied, tacking, moisture-cure urethane adhesive; this adhesive does NOT contain any water. Once cured, BST urethane is waterproof and is not adversely affected by exposure to moisture or water. When applied as directed for a moisture vapor membrane, Bostik BST urethane will reduce moderate amounts of moisture vapor transmission from the subfloor and prevent damages to engineered wood flooring caused by subfloor moisture. This product has a moisture protection of up to 6 lbs. or 80% RH.

FEATURES & BENEFITS

- Tacking formula
- Easy to clean
- Prevents damages caused by moderate subfloor moisture
- Protects up to 6 lbs. or 80% RH for engineered floors
- Exceeds IRC requirements for vapor retarder
- Low VOC
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water *1	0.0%	
Water vapor Permeability *2	< 0.9	
Percentage of Adhesive Coverage Required:	Membrane	Adhesive
– Engineered	≥ 95%	> 80%
– Solid	N/A	> 95%
Elongation	> 100%	
Open/Working Time in Minutes *3	180 minutes	
Application Temperature	50°F to 100°F	
Service Temperature	-40°F to 150°F	
Flash Point	142°F, closed cup	
VOC Compliant (SCAQMD Rule 1168)	Yes (72 g/L)	
Odor	Mild	
Color	Brown	
Weight	12.66 lbs/gallon	
Cure Time *4	8 to 10 hours	
Concrete Moisture Vapor Limits for subfloor moisture vapor protection ASTM 1869 Calcium Chloride Method ASTM 2179 Relative Humidity Test	6 lbs/1000 ft ² /24 hrs ≤ 80% RH	
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch	

*1 Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.

*2 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.

*3 Please refer to the Open/Working Time Chart.

*4 Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

Packaging

BST™ Urethane is available in 5 gallon pails, 36 pails/pallet.



All Bostik's Wood Flooring Adhesives are either 0 or low VOC formulations and may contribute to the qualification of a project for LEED NC V3 certification under the following Indoor Environmental Quality credits for low emitting materials; EQ 4.1 Adhesives and Sealants.



URETHANE ADHESIVES CATEGORY 3 IN 1 FORMULATION



EFA+™

Elastomeric Flooring Urethane Adhesive and Moisture Vapor Retarder



EFA+™ Elastomeric Flooring Adhesive is a one-part, trowel applied, moisture-cure urethane adhesive; this adhesive does NOT contain any water. Once cured, EFA+ is waterproof and is not adversely affected by exposure to moisture or water. When applied as directed for a moisture vapor membrane, EFA+ will reduce moderate amounts of moisture vapor transmission from the subfloor and prevent damages to engineered wood flooring caused by subfloor moisture. This product has a moisture protection of up to 6 lbs. or 80% RH.

FEATURES & BENEFITS

- Easy to spread
- Easy to clean
- Prevents damages caused by moderate subfloor moisture
- Protects up to 6 lbs. or 80% RH for engineered floors
- Exceeds IRC requirements for vapor retarder
- Low VOC
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water *1	0.0%	
Water vapor Permeability *2	< 0.9	
Percentage of Adhesive Coverage Required:	Membrane	Adhesive
– Engineered	> 95%	> 80%
– Solid	N/A	> 95%
Elongation	> 180%	
Open/Working Time in Minutes *3	180 minutes	
Application Temperature	50°F to 100°F	
Service Temperature	-40°F to 150°F	
Flash Point	≥142°F, closed cup	
VOC Compliant (SCAQMD Rule 1168)	Yes (85 g/L)	
Odor	Mild	
Color	White	
Weight	13.7 lbs/gallon	
Cure Time *4	8 to 10 hours	
Concrete Moisture Vapor Limits for subfloor moisture vapor protection ASTM 1869 Calcium Chloride Method ASTM 2179 Relative Humidity Test	6 lbs/1000 ft ² /24 hrs 80% RH	
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch	

*1 Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.
 *2 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.
 *3 Please refer to the Open/Working Time Chart.
 *4 Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

Packaging
 EFA+™ Elastomeric Flooring Adhesive is available in 5 gallon pails, 36 pails/pallet.

A Helpful Hint

Concrete substrates should NOT be smooth and reflective; they should have a profile or broom-type surface texture for the adhesive/membrane to properly penetrate and bond.





URETHANE ADHESIVES CATEGORY 2 IN 1 FORMULATION



TKO®

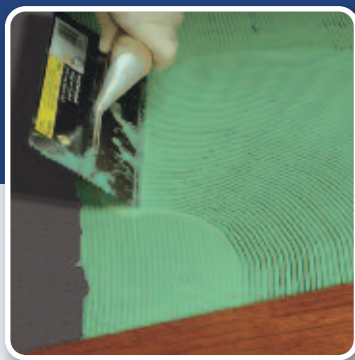
Wood Flooring Urethane Adhesive and Moisture Vapor Retarder



Bostik's TKO® is a one-part, trowel applied, moisture-cure urethane adhesive; this advanced scientifically formulated adhesive does NOT contain any water. Once cured, Bostik's TKO is waterproof and is not adversely affected by exposure to moisture or water; its superior properties provide a tough, flexible, tenacious bond to a variety of surfaces. Bostik's TKO elastomeric characteristics allow the adhesive to move with the wood as it expands and contracts over the life of the floor. When applied as directed for moisture vapor membrane, Bostik's TKO will reduce moderate amounts of moisture vapor transmission from the subfloor and prevent damages to engineered wood flooring caused by subfloor moisture. This product has a moisture protection of up to 6 lbs. or 80% RH.

FEATURES & BENEFITS

- Easy to spread
- Easy to clean
- Contains Bostik's Blocakde™ antimicrobial protection
- Prevents damages caused by moderate subfloor moisture
- Protects up to 6 lbs. or 80% RH for engineered floors
- Exceeds IRC requirements for vapor retarder
- 0 VOC
- 0 Solvent
- Below, on and above grade installations



CHEMICAL & PHYSICAL PROPERTIES

Percentage of Water *1	0.0%		<p>*1 Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/-0.2%.</p> <p>*2 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.</p> <p>*3 Please refer to the Open/Working Time Chart.</p> <p>*4 Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.</p>
Water vapor Permeability *2	< 0.9		
Percentage of Adhesive Coverage Required:	Membrane	Adhesive	
– Engineered	95%	> 80%	
– Solid	N/A	> 95%	
Elongation	≥250%		
Open/Working Time in Minutes *3	90 minutes		
Application Temperature	50°F to 100°F		
Service Temperature	-40°F to 150°F		
Flash Point	500°F, closed cup		
VOC Compliant (SCAQMD Rule 1168)	Yes (0 g/L)		
Odor	Mild		
Color	Mint Green		
Weight	13.8 lbs/gallon		
Cure Time *4	8 to 10 hours		
Concrete Moisture Vapor Limits for subfloor moisture vapor protection ASTM 1869 Calcium Chloride Method ASTM 2179 Relative Humidity Test	≤ 6 lbs/1000 ft ² /24 hrs ≤ 80% RH		
Concrete Moisture Vapor Limits for bond	No Limit / Dry-to-the-Touch		

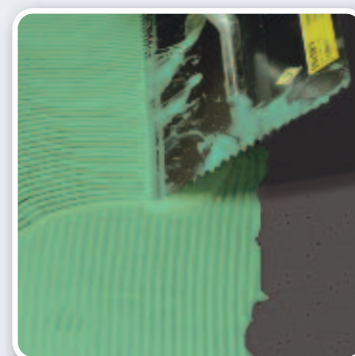
Packaging

Bostik's TKO® is available in 5 gallon pails, 36 pails/pallet.

Trowel Clean-up Tip

Before use, cover areas of the trowel that are not used to spread the adhesive with duct tape.

After use, simply tear off tape before material cures and clean the remainder of the trowel with adhesive remover.



CLEANING



Cleaning the Adhesive

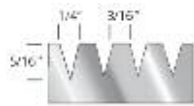
Because urethane adhesives may bond to the surface of pre-finished flooring, you should clean up the adhesive residue as you work. It is possible to remove cured adhesive but it should be avoided.

CLEANERS, SPECIALTY AND TROWELS

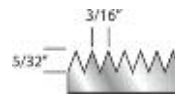
ADHESIVE ONLY TROWELS

Suggested Notched Trowel for Maximum Performance

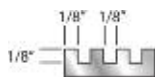
FOR USE AS AN ADHESIVE ONLY; REFER TO STANDARD ADHESIVE TROWEL RECOMMENDATIONS (FOR BONDING ONLY)



3/16" x 5/16" x 1/4" Notch
 ≤1/2" Engineered Hardwood Flooring
 Coverage: 50 sq. ft. per gallon



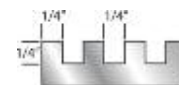
3/16" x 5/32" V Notch
 ≤1/2" Engineered Hardwood Flooring
 Coverage: 50 sq. ft. per gallon



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



1/4" x 1/4" x 1/8" Square Notch
 1/2" Engineered Hardwood, 1/2" Solid Wood
 Flooring, and 3/4" Parquet
 Coverage: 40 sq. ft. per gallon



1/4" x 1/4" x 1/4" Square Notch
 > 1/2" Solid Wood Flooring or Plywood
 Coverage: 35 sq. ft. per gallon

Trowel size is suggested to maximize coverage of adhesive. Periodically check coverage of adhesive during installation; >80% coverage is required for all solid wood flooring that is less than 1/2" thick or any bamboo wood flooring; >95% coverage is required for all other wood flooring. Uneven subflooring may require the use of either a leveling/patching material, or a larger V-notched trowel for proper coverage of adhesive. These trowels are available from leading tool manufacturers such as Marshalltown (www.marshalltown.com) and your Bostik Distributor.



CLEANERS

FEATURES & BENEFITS

- Ready to use
- Removes cured adhesive
- Residue free
- Will not harm finish



ULTIMATE™ ADHESIVE REMOVER

Use Bostik's Ultimate™ Adhesive Remover to remove wet and cured urethane adhesive from the surface of pre-finished (non-wax) wood flooring. Ultimate Adhesive Remover is a readily biodegradable, low-odor, water-rinsable solution.

Bostik's Ultimate Urethane Adhesive Remover is available in two formulations: liquid and pre-soaked, ready-to-use towels.

Packaging

Liquid Formulation, 32-ounce bottle, 12 per case.

Ready-To-Use Towels, 60 pre-wet towel container, 6 per case. Sold in full cases only.

FEATURES & BENEFITS

- Fills hollow spots
- Bonds to wood and concrete
- Flows easily
- Low odor, 0% VOC formula
- Does NOT contain water
- Fits in an off-the-shelf caulking gun
- Versatile formulation works with engineered, parquet, solid wood and bamboo flooring
- Exceptional bond to wood and concrete



SPECIALTY

SIMPLE-FIX™ EPOXY REPAIR KIT

Simple-Fix™ is a versatile, low viscosity, two-component, epoxy adhesive used to repair hollow spots, replace floor boards and to install thresholds, moldings and medallions.

This adhesive is designed for use with engineered wood, parquet, solid wood and bamboo flooring.

Simple-Fix™ has extremely high bond strength, making it the perfect solution for bonding wood to wood, or wood to concrete. Simple-Fix™ is specifically formulated to be a simple repair solution that is easily dispensed with an off-the-shelf caulking gun. This high performance formulation is water resistant, low odor and contains 0% VOCs.

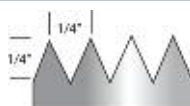
DUAL PURPOSE TROWELS

Suggested Notched Trowel for Maximum Performance

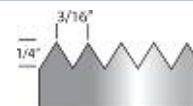
FOR USE AS AN ADHESIVE MEMBRANE; REFER TO DUAL PURPOSE TROWELS RECOMMENDATIONS (FOR MOISTURE VAPOR MEMBRANE AND ADHESIVE)



1/2" x 15/32" V Notch
Wood flooring greater than 5/8" thick
Coverage: 20 sq. ft. per gallon



1/4" x 1/4" V Notch
Wood flooring up to 5/8" thick
Coverage: 30 sq. ft. per gallon



1/4" x 3/16" V Notch
Wood flooring up to 3/8" thick
Coverage: 35 sq. ft. per gallon

Trowel size is suggested to maximize coverage of adhesive. Periodically check coverage of adhesive during installation; 100% coverage is required for all concrete substrates, solid wood flooring that is less than 1/2" thick or any bamboo wood flooring; engineered hardwood flooring; >95% coverage is required for all other wood flooring. Uneven subflooring may require the use of either a leveling/patching material, or a larger V-notched trowel for proper coverage of adhesive. These trowels are available from leading tool manufacturers such as Marshalltown (www.marshalltown.com) and your Bostik Distributor.

HARDWOOD ADHESIVE/MEMBRANE COMPARISON CHART



	HARDWOOD ADHESIVE/MEMBRANE COMPARISON CHART	
	Ultra-Set® SingleStep™	Bostik Vapor-Lock™
DESCRIPTION	Low Perm Tacking Urethane Adhesive with Moisture and Sound Reduction Patented Thickness Control Spacers	Low Perm Tacking Urethane Adhesive with Moisture and Sound Reduction Patented Thickness Control Spacers
Exceeds IRC (International Residential Code) for Vapor Retarders (< 1.0 perm)	Yes, = .40	Yes, < .60
Upper Moisture Limitation (According to ASTM F1869 / F2170) for Subfloor Moisture Protection	None Dry to the touch	15 lbs. and 85% RH
Types of Flooring Covered by Moisture Protection Warranty	Solid, Bamboo, Engineered	Solid, Bamboo, Engineered
Duration of Warranty for Bond (All Flooring Solid, Bamboo, Engineered)	Lifetime	Lifetime
Duration of Warranty for Moisture Protection	Lifetime	Lifetime
Is Product SCAQMD 1168 (VOC) compliant?	Yes; 0 g/L	Yes; 0 g/L
Recycled Content	Yes 1% Post Consumer	Yes 1% Post Consumer
Contains Blockade Antimicrobial Protection?	Yes	Yes
Acoustical Performance, IIC with 6" Slab no Ceiling: w/Ceiling; Delta IIC	IIC = 52dB, 71 w/Ceiling Delta = 23dB	IIC = 50dB, 69 w/Ceiling Delta = 21dB

ADHESIVE / MEMBRANE COMPARISON CHART

Bostik's Best®	TKO®	EFA+™	BST™
Premium Tacking Urethane Adhesive and Moisture Membrane	0 VOC, 0 Solvent Moisture Cure Urethane Adhesive and Moisture Membrane	Urethane Adhesive and Moisture Membrane - EZ Clean EZ Spread	General Purpose Tacking Moisture Cure Urethane
Moisture Related Data			
Yes, < .75	Yes, < .90	Yes, < .90	Yes, < .90
12 lbs. and 82% RH	6 lbs. and 80% RH	6 lbs. and 80% RH	6 lbs. and 80% RH
Engineered	Engineered	Engineered	Engineered
Lifetime 10 Year	Lifetime 5 Year	Lifetime 5 Year	Lifetime 5 Year
Sustainability and Green Building Data			
Yes; 86 g/L N/A Yes	Yes; 0 g/L N/A Yes	Yes; 88 g/L N/A No	Yes; 72 g/L N/A No
Acoustical Performance Data			
N/A	N/A	N/A	N/A

LIMITED WARRANTY

The Limited Warranty for this product can be obtained at www.bostikus.com/resource-center/warranties or by calling 1-800-726-7845 (choose option 2, then option 2 again). TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

Contact Bostik's Technical Service department for job specific recommendations and warranties.

Manufacturing Locations

Conyers, GA 30207
Temecula, CA 92590
Paulsboro, NJ 08066

Customer Service

Phone: 800-7/BOSTIK
Fax: 978-750-7306

Technical Service

Phone: 800-7/BOSTIK
Fax: 978-750-7212

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