

**JUNCKERS**
A NATURAL FEELING



Junckers – A Natural Feeling
Glue-Down Installation Instructions
For all Solid Products: 7/8", 3/4", 9/16"

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Before you begin installing your Junckers floor, read these instructions from start to finish. If you have any questions, contact your local Junckers dealer or Junckers US at 1-800-878-9663, Monday-Friday, 7:00 a.m. - 5:00 p.m. P.S.T.

Tools & Materials List

- | | |
|---|--------------------------------------|
| 1/4" x 1/4" Square-notch Trowel (use with Bostik® Best) | |
| 3/16" x 5/32" V-notch Trowel (use with Bostik® MVP) | |
| Bostik® Best (adhesive) | |
| Bostik® MVP (trowelable underlayment) | |
| Broom | Pull Tool |
| Chalk Line | Space Shims |
| Crow Bar | Table Saw |
| Cut-Off Saw | Wall Spacers |
| Jamb Saw | White Rubber Mallet (glue-down only) |
| Overlap Tapping Block | Variable Wall Spacers |
| Power Saw | |

Pre-Installation Site Inspection

1 Visual Inspection

All new homes and renovation projects must be weather tight. All doors and windows must be installed prior to installation.

Exterior Checks

- Check the eave's overhang. Is all rain water carried away from the foundation?
- Inspect the rain gutters and downspouts. Is all rain water being drained away from the foundation?
- Check exterior grading. Will rainfall or landscape irrigation flood the slab or flow into the crawl space under the house (raised foundation)? Exterior soil elevation and slope are important factors in the house being able to shed water. Note: Is the exterior landscape/hardscape lower than the edge of the foundation? There should be a grade of 5% from the foundation of the structure. This translates roughly to a fall or drop of 6" in every 10' away from structure.
- Does the house have raised flowerbeds or planter boxes that adjoin the foundation? If yes, a moisture barrier must be installed by a landscaper.
- Is there an outdoor pool or natural body of water higher than the foundation that can overflow and flood the floor?
- If the home has a raised foundation, are exterior vents open and unrestricted? Size of available vents should equal 1.5% of the square footage within the crawl space.



Pre-Installation Site Inspection

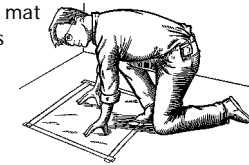
Interior Checks

- Does the interior have a musty smell?
- Check all sinks, toilets, dishwashers, refrigerator ice makers, and laundry rooms for leaks.
- Do outside doors, sliding glass doors, and windows appear to be properly sealed and are adjacent areas dry?
- Is HVAC operational?
- Concrete and plaster should be cured at least 60-90 days.
- The installation site should have a consistent room temperature of 55-75°F and a relative humidity of 35-65% for a minimum of 5 days prior to installation.

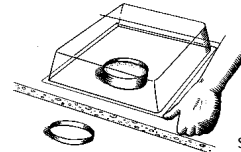
2 Subfloor Moisture Testing Over Concrete

Junckers flooring can be installed in rooms with normal humidity levels on subfloors that are firm, level, and dry. To determine if a concrete subfloor is dry, several methods can be used.

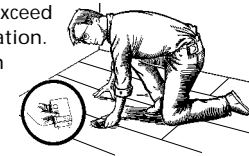
Method A: Place a sheet of plastic film or rubber mat on the surface of the subfloor and seal the edges with duct tape. If after 24 hours condensation or darkening does not occur, the subfloor is dry. If condensation or darkening does occur, refer to Method B.



Method B: Should Method A indicate moisture, a 72-hour calcium chloride test needs to be conducted on the concrete subfloor (ASTM F-1869). For readings in excess of 8 lbs., corrective measures must be taken in order to successfully install Junckers. **CAUTION:** Calcium Chloride readings can fluctuate seasonally and the maximum rating of the two-part system is 10 lbs.



Method C: Use a Tramax CRH Moisture Content and Relative Humidity Meter. If the reading is 6% moisture content and relative humidity level in the concrete does not exceed 75% (on hygrometer mode) proceed with installation. Use the instructions in this installation instruction booklet for all Junckers solid hardwood flooring products (ASTM F2170).



Preparing for Installation

1 Subfloor Tolerance

Subfloors must be a Portland-based concrete surface (no lightweight or gypsum-based materials). Existing floor coverings must be removed prior to installation when using glue-down method. Surface variation should not exceed 3/16" within a ten-foot radius or 1/8" within a six-foot radius (NWFA specification). To determine flatness of the subfloor use the edge of the Junckers flooring board, a straightedge or a level.

- For installation method suitable for wood subfloors please refer to Junckers' Nail-Down Installation Instructions or Clip & Repair Installation Instructions.
- Glue-down application is intended for installation on or above grade. For installation method suitable for below grade installation please refer to Junckers Clip & Repair Installation Instructions.
- For installation over radiant heat systems refer to Junckers' Clip & Repair Installation Instructions and Radiant Heat Guide.



2 Low Spots

Fill low spots that exceed specification using Bostik® Fast Patch 102, SL-150, SL-155 Fast Set, Durabond Webcrete 95 or Durallevel 83P prior to the installation of Bostik® MVP or Sika® Primer MB.

3 High Spots

Grind all high spots with concrete grinder to conform with specification for flatness, 3/16" within a ten-foot radius or 1/8" within a six-foot radius (NWFA specification).

Preparing for Installation

4 Removal of Excess Build Up from Subfloor

When Using Bostik®

With rotary or oscillating sander remove all paint, drywall mud, varnish lacquer (wood finishes), old adhesive residue and concrete curing-sealers to insure good bond of Bostik® MVP trowelable vapor barrier. Note: To completely remove cut back adhesives it is necessary to sand blast, bead-blast or scarify. When sand blasting, bead blasting or scarifying, the surface texture must be similar to a light broom finished concrete.

When Using Sika®

With rotary or oscillating sander remove all paint, drywall mud, varnish lacquer (wood finishes), old adhesive residue and concrete curing-sealers to insure good bond of Sika® Primer MB. Note: To completely remove cut back adhesives it is necessary to sand blast, bead-blast or scarify. When sand blasting, bead blasting or scarifying, the surface texture must be similar to a light broom finished concrete.

5 Fill Open Cracks

For open cracks 1/8" or smaller, back trowel Bostik® MVP into crack immediately before applying the Bostik® MVP membrane. For larger cracks use Bostik® Fast Patch 102, SL-150, SL-155 Fast Set, Durabond Webcrete 95 or Durallevel 83P prior to the application of Bostik® MVP. Do not use Bostik® MVP as a filler when using Sika® Primer MB.

6 Clean Subfloor

After all leveling, grinding, and surface coatings and contaminants are removed the floor should be cleaned with industrial vacuum. If any fine dust remains the concrete subfloor should be mopped and allowed to dry.



Expansion & Contraction Planning

1 Acclimation & Seasonal Movement

Wood flooring will perform best when the interior environment is controlled to stay within a relative humidity range of 30-50% and a temperature range of 60-80°F. The size of the individual boards will correspond to the environment in which they are placed.

Relative Humidity (%)	Climate Zone	Spacer Size	Moisture Content	1 Board Measure (mm)
10	1	None	3.0	128.18
20			4.5	128.51
30			6.0	128.78
40	2	0.2 mm	7.5	129.00
50			9.0	129.10
60	3	0.4 mm	10.5	129.25
70			13.0	129.45
80	4	0.6 mm	15.5	129.75
90			18.0	130.25

Beech is used as an example. Other species reactions vary slightly.

This chart is intended for general use. Factors such as heat and additional moisture from structural or plumbing leaks, lack of climate control before and after installation, and improper maintenance will have additional impact on board size and moisture content.

The relative humidity range indicated on the chart above shows the high and low relative humidity ranges of each zone. At the highest humidity percentage, the boards will "expand" in the width. At the lowest humidity percentage, boards will "contract" and become narrower. This represents the normal movement associated with seasonal changes in relative humidity.

Climate Zone 1: This geographic area represents a lower humidity cycle of 10-30%. It is necessary in this drier/low-humidity zone to contract the boards in width and establish a lower moisture content in the boards through acclimation. The boards should be contracted/acclimated to represent the upper (more humid) end of the humidity cycle for this zone. If the relative humidity is at the drier (lower) end of the humidity cycle, a humidifier can be used to prevent over-drying (over-contracting) of the boards. To acclimate, remove material from boxes, cross-stack to promote air movement to all sides of the flooring and allow the boards to "contract" to the appropriate size and moisture content. The boards will now have room to contract further (during low-end of humidity swing) and expand back in size (during high-end of humidity swing).

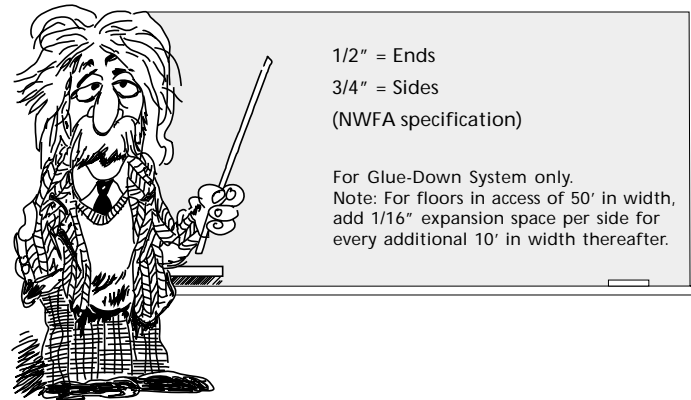
Climate Zones 2, 3, & 4: Install material directly from the box and insert spacers between boards (side joints only), using spacer size indicated for the climate zone. Spacers will create adequate room between the boards, allowing them to expand and contract in response to seasonal changes in relative humidity.

Note: If acclimation of the material vs. spacers is utilized, effective acclimation occurs when the humidity is at the higher end of the humidity cycle for the climate zone in which the floor is being installed. If the humidity is at the lower end of the cycle, it is necessary to raise the humidity to represent the higher end of the cycle. To acclimate, remove material from boxes, cross-stack to promote air movement to all sides of the flooring and allow the boards to "expand" to the appropriate size and moisture content. Remember: A humidifier can be used to establish higher end of humidity scale in all installation zones. For additional industry information on wood flooring's reaction to seasonal humidity cycles, see NWFA publication A100 pages 5-6 and 12-13.

Expansion & Contraction Planning

2 Expansion Space – Doing the Math

To calculate the correct expansion space for the width for glue-down installations, use the following table:

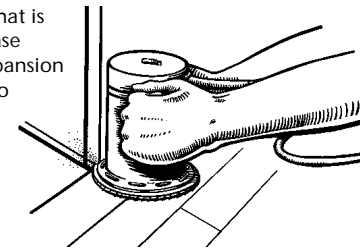


3 Allowing for Expansion

Remove any existing wall base, molding or doorway thresholds. These items can be replaced after installation. Door casings should be undercut and notched out to avoid difficult scribe cuts and provide for proper expansion space. This is easily done by placing a flooring board on the subfloor against the trim and sawing the door jamb. The flooring can then slide under the door frame. **Note:** When setting saw height, allow for thickness of Bostik® MVP and Bostik® Best Adhesive.

4 Undercutting Wall Base

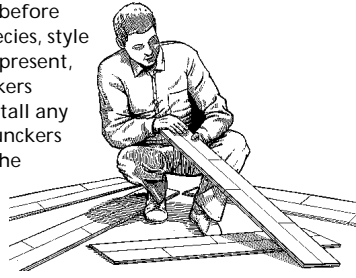
When existing wall base is in place that is not going to be replaced the wall base should be undercut to allow 3/4" expansion to be used at sides of floors. This also allows a thinner shoe or quarter round molding to be used while retaining proper expansion space at the sides and ends.



Installation – **Glue-Down**

1 Inspect Material

Examine all material for any defects before installation and confirm the color, species, style and thickness. Should any defects be present, STOP THE JOB and contact your Junckers representative right away. Do not install any plank that is obviously defective. A Junckers representative will arrange to view the job or view samples of the material as soon as possible. Junckers strives to make a product that is second to none in quality. However, the time to correct possible defects is before the material is installed.



2 Remove Polyfilm Backer

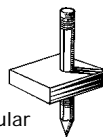
Glue-down installation only. Many Junckers products have a plastic film adhered to the back of the board. This film must be removed for the glue-down installation method.

3 Starting Line

Choose a long, straight wall as your starting wall. To start your first row of boards, tack and stretch a string 3/4" away from wall and 1/2" above surface of the floor height. The string acts as a guide to help determine if the wall is straight. If wall is straight use appropriate thickness of wall spacer (see page 11, *Expansion & Contraction Planning*) to achieve adequate space at sides and ends of plank rows. For greater accuracy against irregular walls Variable Wall Spacers can be used.

4 Irregular & Out-of-Square Walls

If your starting or ending wall is irregular or out-of-square, scribe and cut that first row to match variations. A simple scribe can be made by drilling a pencil-sized hole the appropriate expansion space from the wall. Mark the irregular surface onto plank to be cut.

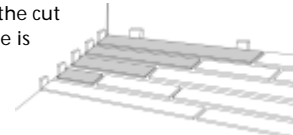


Installation – **Glue-Down**

5 Starting Next Row & End-Joint Spacing

To start the next row of boards, begin with the cut piece left over from the first row (if cut piece is under 16" cut a new piece at least 16" long from a full plank to stagger the end-joints).

End-joint spacing must be 16" or greater to create interlocking strength in the floor. Note: Always install material from 2-3 boxes at the same time to blend the boards. In the event of mixed (2 or more production dates, see box label) production dates work from both dates at the same time and mix throughout the floor to achieve a color blend.



6 Cautions / Limitations / Reminders

- **DO NOT intermix Bostik® and Sika® products.**

When Using Bostik®

- Junckers glue-down installation requires the use of Bostik® MVP trowel-able underlayment.
- Flat trowel any voids in Bostik® MVP prior to installation with additional Bostik® MVP or Bostik® Best.

When Using Sika®

- Junckers glue-down system requires the use of Sika® Primer MB applied with paint roller.
- Install product after primer is dry using SikaBond® T-55 full spread adhesive or Sika®Acoubond®-System.

Specifications when using Bostik® or Sika®

- Slab must be flat to within 3/16" per 10-foot of span or 1/8" per six-foot of span.
- Humidity affects characteristics of the adhesive to a greater degree than temperature. The higher the humidity, the faster the cure.
- Slab temperature should be between 50-100°F during installation.
- Do not use on wet, contaminated, or friable substrates.
- Do not use in areas subject to hydrostatic head.
- Do not use as a leveling material.
- Do not allow foot traffic until fully cured: usually 8-12 hours.
- Check expansion and contraction planning section to determine what size spacers are required if any.
- Do not use below grade.
- Do not use over radiant heat.

7 Storage / Shelf Life

Store in clean, dry and warm area to ensure base of application. Shelf life is one year from date of manufacture.

Installation – **Glue-Down**

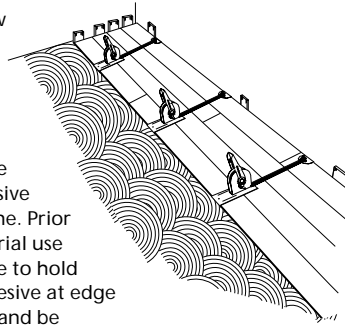
8 Installing Starter Rows

Use wet-lay installation method when installing starter rows. Begin by installing the first four rows. Insert end-joint together first and then tap the side tongue and groove together. Use white rubber mallet with overlap tapping block to tap boards together. Note: Use of overlap tapping block keeps block above surface of adhesive and keeps adhesive off rubber mallet. Do not hit edge of floor with rubber mallet or hammer. Snap chalk line 1/4" short of where the last row will be placed when you anticipate in a pause during the job. Spread adhesive up to the chalk line. This will prevent adhesive from interfering when resuming the installation at a later time.

9 Strap or Tape Starter Rows

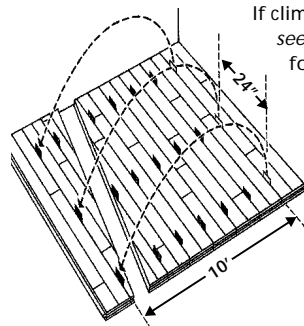
Strap starter rows together and allow adhesive to dry. For approximate dry times, see page 19, *Temperature / Relative Humidity Chart*. Once the starter rows are dry proceed with balance of installation.

IMPORTANT: If the job is going to take longer than the dry time of the adhesive that section must end on a straight line. Prior to the installation of additional material use strap-clamps or 3M blue painter's tape to hold the planks in place. Any exposed adhesive at edge of floor should not be allowed to dry and be smoothed with the flat edge of the trowel.



10 Spacer Placement

If climate zone requires use of joint spacers, see page 10, *Expansion & Contraction Planning* for appropriate spacer size.



Installation – **Glue-Down**

11 Taping the Floor

Remove joint spacers and run 3M blue painter's tape every three feet across grain to hold floor in place while drying. Note: Do not leave blue painter's tape in place any longer than 24 hours. Do not use masking tap, duct tape, packaging tape, etc.! **IMPORTANT:** If the job is going to take longer than the dry time of the adhesive that section must end on a straight line. Prior to the installation of additional material use strap-clamps or 3M blue painter's tape to hold the planks in place. Any exposed adhesive at edge of floor should not be allowed to dry and the trowel ridges are to be smoothed with the flat edge of the trowel.

12 Roll Floor

Roll floor with 150 lb. vinyl roller to seat flooring firmly in the adhesive. Roll the floor within open time and after taping the floor with blue painter's tape. **CAUTION:** Wrap vinyl rollers with fresh duct tape prior to rolling floor. Use of a steel roller without duct tape applied to roller can damage finish. Failure to replace duct tape for each job allows glue and dirt to be trapped on the surface also potentially damaging the finish.

13 Remove Adhesive Residue

Clean up adhesive with Mineral Spirits or Bostik® Ultimate Adhesive Remover. Clean up adhesive prior to it drying, as dry adhesive is more difficult to remove. Note: Once adhesive is fully cured, it may not be possible to remove adhesive from finish.

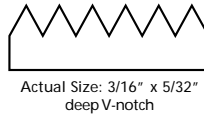
Installing with **Bostik® MVP** (Moisture Vapor Protection)

1 Product Description

Bostik® MVP (Moisture Vapor Protection) is a one-part, trowel applied, elastomeric anti-fracture membrane formulated to reduce moisture vapor transmission from the concrete subfloor. Junckers Hardwood, Inc. specifies the use of Bostik® MVP over Portland-based concrete on or above grade. The product can be applied over existing Portland-based patch. Note: Do not install over gypcrete or lightweight concrete

2 Application of Bostik® MVP

Apply Bostik® MVP using the notched side of a 3/16" x 5/32" deep V-notch trowel to achieve a solid, uniformly thick 30-mil membrane (approximately the thickness of the average credit card). Apply holding the trowel at a 45° angle. Bostik® MVP is designed to flatten and heal with little need for flat troweling to achieve a continuous membrane. The material flattens at a rapid rate and trowel voids that do not close right away can be closed with the flat side of the trowel as the Bostik® MVP is being applied. Note: Bostik® MVP is not designed to level out imperfections or irregularities in the slab, see pages 8-9, *Preparing for Installation*.



3 Coverage

There is 40-45 square foot of coverage per gallon when using 3/16" x 5/32" deep V-notch trowel. Concrete slab must have full membrane coverage. Membrane voids and trowel marks can be filled at time of install by using the flat side of the trowel to flatten surface. Any remain-ing voids may be filled during glue-down installation with additional Bostik® MVP or with Bostik® Best.

4 Cure Time

Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Keep off the membrane until Bostik® MVP cures; usually 12-16 hours. Note: In dry climates cure time can be accelerated by the use of humidifiers.

5 Clean Up

Immediately clean all tools and equipment with Mineral Spirits or Bostik® Ultimate Adhesive Remover before Bostik® MVP cures. Once cured this material can only be mechanically removed which can damage some surfaces.

Installing with **Bostik® MVP** (Moisture Vapor Protection)

6 Cautions / Limitations / Reminders

- **DO NOT intermix Bostik® and Sika® products.**
- Installation / job site must be within Junckers' recommended relative humidity and temperature range, see pages 10-11, *Expansion & Contraction Planning*.
- Glue-down installation for use on Portland-based concrete only. This system is not intended for use over gypcrete or lightweight concrete.
- All leveling and patching must be performed with Portland-based materials. Use of non-Portland-based or gypsum-based materials will invalidate the warranty, see pages 8-9, *Preparing for Installation*.
- Do not use in below grade applications (see Junckers Clip Installation & Repair Instructions for appropriate installation method using Polyfelt and Clip System).
- Do not use over concrete slabs treated with sealers or curing compounds.
- Completely remove cutback adhesive residue (and other surface contaminants) by sandblasting, shotblasting, or scarifying.
- Do not use Bostik® MVP as an adhesive.
- Do not use in areas subject to hydrostatic head.
- Do not apply any sealers such as two component epoxies prior to the application of Bostik® MVP.
- Do not use under VCT or vinyl or attempt to incorporate VCT or vinyl into the glue-down application using Junckers, Bostik® MVP, and Bostik® Best.
- Do not use over radiant heat. Refer to Junckers' Clip Installation & Repair Instructions and Radiant Heat Guide for proper installation method over radiant heat.

7 Storage / Shelf Life

Store at temperatures between 50-100°F. Shelf life is one year from date of manufacture in closed, original packaging. Storing at temperatures below 50°F may affect the self-leveling properties of the product.

Re-Seal Partially Used Container: With pail upright place a sheet of plastic (e.g. trash bag) over the top of the pail. Secure lid tightly over the plastic on top of the pail. Carefully turn and keep pail upside down while storing. Plastic will help prevent the material from bonding to the closed lid.

Re-Open Partially Used Container: Carefully turn pail right side up. Remove lid. Carefully cut and discard cured material and plastic from top of pail. Any uncured material may be used.

8 Packaging

Bostik® MVP is available in 5 gallons pails.

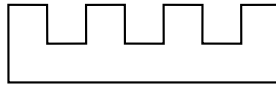
Installing with **Bostik® Best**

1 Product Description – Bostik® Best

Bostik® Best is a one-part, trowel-applied polyurethane adhesive. Once cured it provides a strong and flexible bond. Its elastomeric characteristics allow the adhesive to move as the floor expands and contracts. Junckers Hardwood, Inc. specifies the use of Bostik® Best in conjunction with Bostik® MVP trowelable underlayment system. For use on or over gypcrete or lightweight concrete.

2 Trowel Size & Spread Rate

Use a 1/4" x 1/4" Square-notch trowel for glue-down installation of Junckers' 9/16", 3/4" and 7/8" products.



Actual Size: 1/4" x 1/4" Square-notch

3 Coverage

There is 35-40 square foot of coverage per gallon when using 1/4" x 1/4" Square-notch trowel.

4 Application of Bostik® Best

Starter Rows: Spread Bostik® Best Adhesive for first four rows of product (covering area parallel to wall of approximately 21-22" from wall). Once adhesive is applied and prior to installation of boards use the notched side of the trowel to comb the adhesive establishing a glue-bead pattern on concrete that runs across grain of the planks. Set starter rows using Wet-Lay Method, see page 19, *Installing with Bostik® Best*.

Installing with **Bostik® Best**

5 Adhesive Cure, Tack & Open Time

- Adhesive cure time is usually 8-12 hours depending on humidity conditions. Keep traffic off of floor until cured.
- **Wet-Lay Method:** Apply adhesive to concrete and immediately place flooring onto wet adhesive.
- **Walk-On-Work-Method:** Apply adhesive to concrete with suitable trowel and allow it to develop tack (refer to Temperature / Relative Humidity Chart). Install flooring onto "tacky" adhesive.

Temperature / Relative Humidity Chart						
		Humidity				
Temp.		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

Installing with **Sika® Primer MB** (Moisture Regulator & Primer)

1 Product Description

Sika® Primer MB is paint roller applied, two-component, solvent free, low viscosity, epoxy primer.

- Designed as a barrier to reduce moisture vapor transmission from the concrete subfloor. Junckers Hardwood, Inc. specifies the use of Sika® Primer MB over Portland-based concrete on or above grade.
- Sika® Primer MB to be used with gypcrete subfloors to prime and strengthen subfloor prior to installation of SikaBond® T-55 full-spread Adhesive or Sika® AcouBond®-System.

2 Mixing / Mixing Time

Add Part A to Part B in the correct ratio using an electric drill and stirrer at a low speed (300-400 rpm) to reduce air entrapment. A minimum mixing time of three minutes shall be observed; stirring shall continue until a homogeneous mix has been achieved. Scrape sides of pail with a paint stick or paddle to ensure all contents are thoroughly mixed together.

3 Application Method / Tools

Pour out entire content of pail over a three hundred square foot area. Apply Sika® Primer MB uniformly (crosswise) to the substrate using a medium nap roller, ensuring that a continuous coat is achieved over the entire surface (a uniform and gloss finish should be achieved). During application and dry time, temperature of the substrate should be above 50°F. Application temperature of substrate must be a minimum of 5°F above the dew point! Room air temperature should be above 50°F. Note: Do not work out of can by applying small amounts to substrate. Empty entire contents of pail immediately after mixing. Use caution to prevent contamination of primer with dirt. Flooring must be applied within 36 hours of application of Sika® Primer MB. After 36 hours thoroughly clean the surface and check for any damage to primed surface.

CAUTION:

- To avoid rare allergic reactions, Sika® recommends the use of butyl rubber / nitrate rubber gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Set any leftover material in the pail outdoors to cure. As the mix cures in pail it gets very warm and gives off an odor.

Installing with **Sika® Primer MB** (Moisture Regulator & Primer)

4 Open Time

Maximum open time is effected by temperature.

- 50°F = 60 minutes
- 70°F = 30 minutes
- 90°F = 15 minutes

Pouring Sika® Primer MB early morning or late afternoon when temperatures are lower is recommended to allow for longer application times.

5 Coverage

There is approximately 330 square foot of coverage per pail depending on absorbency of substrate. More porous substrates will reduce the coverage of the primer.

6 Dry Time

Humidity and temperature effect rate of drying and dry time is 8-12 hours depending on climate conditions.

7 Clean Up

Immediately clean all tools and application equipment with cleaning solvent (xylene, MEK are effective). Hardened / cured material can only be mechanically removed.

Installing with **Sika® Primer MB** (Moisture Regulator & Primer)

8 Cautions / Limitations / Reminders

- **DO NOT intermix Bostik® and Sika® products.**
- Installation / job site must be within Junckers' recommended relative humidity and temperature range, see pages 10-11, *Expansion & Contraction Planning*.
- Used in conjunction with glue-down installation over Portland-based concrete or gypcrete.
- On fiber reinforced concrete, plastic fibers should be flamed off the surface, prior to application of Sika® Primer MB as moisture regulator. For additional information contact Sika® Technical Services Department toll-free at 800-933-7452.
- Do not use in below grade applications. Refer to Junckers Clip Installation & Repair Instructions for proper installation method below grade.
- Substrate must be clean, flat to within 3/16" per ten-foot span or 1/8" per six-foot span and free from dust, grease and oil.
- Do not use over concrete slabs treated with sealers or curing compounds.
- Compressive strength must meet or exceed 1160 psi.
- Tensile Bond strength must meet or exceed 116 psi.
- Completely remove cutback adhesive residue (and other surface contaminants) by sandblasting, shot-blasting, or scarifying.
- Do not use Sika® Primer MB as an adhesive or in conjunction with adhesives other than SikaBond® T-55 or Sika®AcouBond®-System.
- Do not use in areas subject to hydrostatic head.
- Do not use under VCT or vinyl or attempt to incorporate VCT or vinyl into the glue-down application using Junckers, Sika® Primer MB, SikaBond® T-55, or Sika®AcouBond®-System.
- **IMPORTANT:** Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Material Safety Data Sheet.

9 Storage / Shelf Life

Store in clean, dry and warm area (between 50-80°F) to ensure base of application. Shelf life is 24 months from date of manufacture.

10 Packaging

Part A and Part B (one complete unit) is 2.64 gallons.

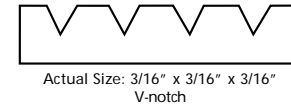
Installing with **SikaBond® T-55 Adhesive**

1 Product Description

SikaBond® T-55 is a one part, trowel applied, low-VOC, permanently elastic polyurethane adhesive. Once cured it provides a strong and flexible bond. SikaBond® T-55 elastomeric characteristics allow the adhesive to move as the floor expands and contracts. Junckers Hardwood, Inc., specifies the use of SikaBond® T-55 in conjunction with Sika® Primer MB roller-applied two component, solvent free low viscosity, epoxy primer for vapor protection and to penetrate and strengthen concrete and gypsum-based subfloors.

2 Trowel Size

Use a Sika® P-5 3/16" x 3/16" x 3/16" V-notch trowel for glue-down installation of Junckers' 7/8", 3/4" and 9/16" products.



3 Coverage

50 square feet per gallon when using Sika® P-5 trowel.

4 Application of SikaBond® T-55

Starter Rows: Spread SikaBond® T-55 for first four rows of product (covering area parallel to wall of approximately 21-22" from wall). Hold trowel at a 45° angle to ensure adequate coverage. Once adhesive is applied and prior to installation of boards, use the notched side of the trowel to comb the adhesive, establishing a glue-bead pattern on concrete that runs across grain of the planks. Set starter rows into adhesive.

5 Adhesive Cure / Open Time

- Adhesive cure time is usually 12 hours. Keep traffic off of floor until cured.
- Open time is 45-60 minutes

Installing with **SikaBond® T-55 Adhesive**

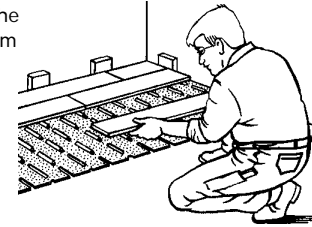
6 Cautions / Limitations / Reminders

- DO NOT intermix Bostik® and Sika® products.
- Junckers glue-down installation using SikaBond® T-55 requires the use of Sika® Primer MB.
- Installation / job site must be within Junckers' recommended relative humidity and temperature range, see pages 10-11 *Expansion & Contraction Planning*.
- Slab must be flat to within 3/16" per ten-foot span or 1/8" per six-foot span.
- Humidity affects characteristics of the adhesive to a greater degree than temperature. The higher the humidity, the faster the cure.
- Subfloor temperature should be greater than 60°F.
- Do not use on wet, contaminated or friable substrates.
- Do not use in areas subject to hydrostatic head or in areas subject to secondary source of moisture.
- Room temperature should be between 60-90°F.
- Do not use adhesive as a leveling material.
- Do not allow foot traffic until fully cured; usually 12 hours.
- Check expansion and contraction planning section to determine what size spacers are required if any.
- Glue-down application is intended for installation on or above grade. For below grade installations, refer to Junckers Clip Installation & Repair Instructions for proper installation method.
- Do not use glue-down installation system over radiant heat. Refer to Junckers' Clip Installation & Repair Instructions and Radiant Heat Guide for proper installation method over radiant heat.

Installing with **Sika® AcouBond®-System**

1 Product Description

The Sika® AcouBond®-System consists of the SikaLayer®-03 a 1/8" specially slotted foam mat and SikaBond® T-53 a permanently elastic, sound dampening adhesive that forms a bond to wood flooring and suitable subfloor.

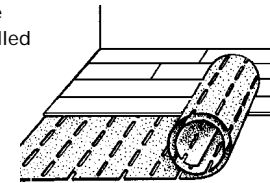
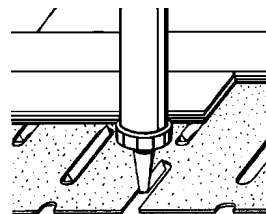


2 Coverage

SikaLayer®-03 rolls contain 269 square feet. One case of SikaBond® T-53 containing 20 aluminum sausage tubes (cartridges) will cover the same square footage.

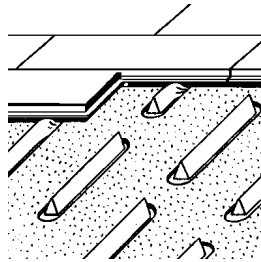
3 Application

- Install the SikaLayer®-03 mat parallel to the direction to which the flooring is to be installed (with slots running across the direction of install). Note: The foam mats must be placed in close proximity 1/4-1/2" maximum space between the mats. However, the mats must never overlap.
- Cut small metal clip off of the end of the sausage tube, insert into gun and screw on the applicator tip.
- Apply the adhesive either with the manual or air pressure gun into all cutouts. Applicator tip must be held vertical to the substrate. **IMPORTANT:** Adhesive bead must be 1/8" high. Do not place adhesive on the mat between the cutouts.
- Place boards in position and firmly press into the adhesive until boards are in direct contact with the mat. The boards then can be tapped together. Note: It may be occasionally necessary to use strap clamps to pull boards into position or tighten up irregular gapping.
- Floor can be walked on during installation.



Installing with **Sika®Acoubond®-System**

- At the end of an installation day; finish up on a straight line, strap in place, and flatten any beads of adhesive that will be exposed overnight to ensure ability to fit the next row when installation resumes.



4 Adhesive Cure / Open Time

Adhesive cure time is 24 hours at 73°F and 50% relative humidity. Normal traffic can begin 24-48 hours after installation depending on temperature and relative humidity. Open time is 45-60 minutes.

Installing with **Sika®Acoubond®-System**

5 Cautions / Limitations / Reminders

- **DO NOT intermix Bostik® and Sika® products.**
- Junckers glue-down installation using Sika®AcouBond®-System requires the use of Sika® Primer MB.
- Installation / job site must be within Junckers' recommended relative humidity and temperature range, *see pages 10-11 Expansion & Contraction Planning.*
- Slab must be flat to within 3/16" per ten-foot span or 1/8" per six-foot span.
- Humidity affects characteristics of the adhesive to a greater degree than temperature. The higher the humidity, the faster the cure.
- Subfloor temperature should be greater than 60°F.
- Do not use on wet, contaminated or friable substrates.
- Do not use in areas subject to hydrostatic head or in areas subject to secondary source of moisture.
- Room temperature should be between 60-90°F.
- Do not use adhesive as a leveling material.
- Do not allow foot traffic until fully cured; usually 12 hours.
- Check expansion and contraction planning section to determine what size spacers are required if any.
- Glue-down application is intended for installation on or above grade. For below grade installations, refer to Junckers Clip Installation & Repair Instructions for proper installation method.
- Do not use glue-down installation system over radiant heat. Refer to Junckers' Clip Installation & Repair Instructions and Radiant Heat Guide for proper installation method over radiant heat.

Junckers – A Natural Feeling

For more information visit us on the web at

www.junckershardwood.com

or contact your local Junckers dealer.

