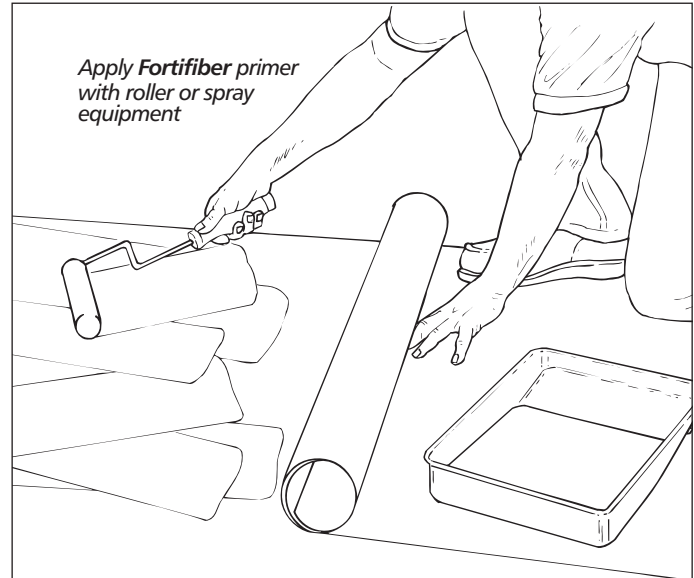


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with some sealants. Consult sealant manufacturer and test for interaction with any sealant to be used.

INSTALL FORTIFLASH FOR FLOORS OVER CONCRETE

- After fitting, roll back half of the **FortiFlash** membrane to expose the concrete sub-floor.
- Test for adhesion. If **FortiFlash** does not adhere to concrete the surface must be primed.
- Prime this area of the slab with **Fortifiber Primer**, easily applied with brush, roller or sprayer; no substitutions. Apply **FortiFlash** after primer becomes tacky. Primer activates the bond between **FortiFlash** and the concrete to achieve the best possible bond.
- Peel away the release paper and press membrane firmly over substrate.
- Repeat above steps with other half and install the next roll of **FortiFlash**.
- Seams between rolls must be overlapped a minimum of 4" or butted and taped with Fortifiber's **Moistop® Tape**; no substitutions.
- After covering the entire area, apply sufficient pressure to adhere, then use a 100 lb. roller over the entire membrane to ensure full contact between **Moistop Tape**, **FortiFlash** and concrete. Seams and cutouts around posts, pipes and other protrusions must be overlapped and taped to seal.
- To remove air pockets, use a sharp knife to slit the pocket and compress with a trowel or J-roller and seal with **FortiFlash** or **Moistop Tape**. If **FortiFlash** folds and seals to itself, cut out damaged area and install a repair piece using tape and seam technique.
- Do not puncture **FortiFlash** with flooring cleats or staples when installing flooring. Never adhere flooring directly to **FortiFlash** membrane.
- Fortifiber's **Aquabar®** Class II vapor retarder must be applied over wood sub-floor as a secondary vapor retarder; no substitutions.
- Install flooring over **Aquabar** following wood floor manufacturer's instructions.



SCREED SYSTEMS OVER CONCRETE

Screeds may be mechanically attached through **FortiFlash** to concrete following fastener manufacturer's recommendations. Follow wood floor manufacturer's or NWFA Guidelines for proper installation of screed systems over concrete and for proper selection and installation of wood flooring over screeds or screed with wood sub-floor panels.

FLOATING FLOOR OR FLOATING SUB-FLOOR SYSTEMS

Any floating floor or floating sub-floor system may be installed over **FortiFlash**. Follow wood floor manufacturer's or NWFA Guidelines for proper installation of floating floor or floating sub-floor systems. Do not puncture **FortiFlash** with cleats or staples used to install flooring over nail down floating sub-floor systems.

FORTIFLASH FOR FLOORS WARRANTY

This product may be eligible for a 15 year limited warranty when installed following Fortifiber's installation instructions in a floor system installed following NWFA guidelines and accepted industry practices. Please see our website at www.fortifiber.com/warranty.htm for details.

Call 1-800-773-4777 Nationwide for
Technical Assistance or visit our website
at www.fortifiber.com



**Fortifiber Building
Systems Group®**

Protecting Your World from the Elements®

NATIONAL SALES OFFICE - Fernley, NV

(2/16)

FORTIFLASH® FOR FLOORS

40 MIL WATERPROOF VAPOR RETARDER MEMBRANE

Moisture and moisture vapor are the enemy in any wood floor installation. Moisture vapor emission from the concrete can cause wood flooring or sub-floors to warp, cup and buckle. Controlling other moisture related issues such as mold and mildew is imperative to a successful wood floor installation.

FortiFlash for Floors waterproof vapor retarder membrane is part of a complete moisture control system for floors, walls, concrete slabs and windows. When integrated into a building envelope, our moisture solutions help manage and eliminate moisture related problems.

Premium Self-Adhesive Concrete Floor Membrane

FortiFlash for Floors is a Class I, self-bonding, waterproof, vapor retarder membrane with self-sealing properties. It is ideally suited for use under floating or mechanically fastened wood panel sub-floors under hardwood, carpet, laminate or resilient floors. It is a two-part material with an SBS modified asphalt base layer and a high strength, cross laminated, high density polymer film. It is a premium Class I vapor retarder and moisture barrier for wood floors installed over concrete slabs, at an economical price compared to other moisture control solutions.

It provides more effective performance than the traditional asphalt-felt-asphalt waterproofing systems of the past without the mess, extra labor and time involved with those installation materials. FortiFlash for Floors can be installed around protrusions and into the tightest corners without delaminating or tearing.

MECHANICALLY ATTACHED SUB-FLOOR SYSTEMS

Under a mechanically attached wood panel sub-floor over concrete, the elastomeric base layer's self-sealing properties help to reduce or prevent moisture migration around the fastener, thereby providing a monolithic layer of protection for the sub-floor and the finished flooring system.

FLOATING FLOOR SYSTEMS

FortiFlash for Floors can also be installed under floating floor systems, floating sub-floor systems and screed systems over concrete. When installed under nail-down floating floor systems it resists damage during installation of the sub-floor and protects the flooring system against moisture damage from below. It also

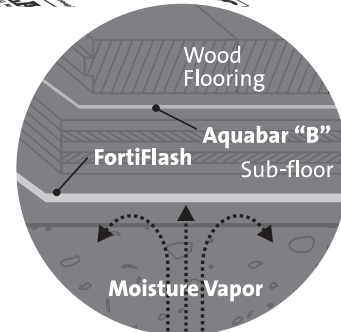
“A premium Class I vapor retarder and moisture barrier over concrete slabs.”

protects floating laminate and engineered floors from moisture when installed following floor manufacturer's installation instructions.

FortiFlash for Floors integrates with Fortifiber®'s complete system of flooring products and moisture resistive barriers for walls, windows and concrete to form a comprehensive moisture control system that protects the interior and exterior of structures from moisture intrusion.

Decades of Proven Performance

FortiFlash for Floors is a product distributed by the Fortifiber Building Systems Group®. With more than a seventy-five year history of proven performance, technical expertise and practical know-how, the company has become a trusted partner to builders, architects and code officials.



FortiFlash protects floating laminate and engineered floors installed over concrete.

- USE FORTIFLASH 40 FOR OPTIMUM FLOORING PERFORMANCE
- HIGH MOISTURE RESISTANCE
- PREMIUM CLASS I VAPOR RETARDER
- SELF-SEALING PROPERTIES
- LOW VAPOR PERMEANCE
- FOR BEST RESULTS, USE WITH MOISTOP® SEALANT & LIQUID FLASHING



FORTIFLASH FOR FLOORS

Product Description: FortiFlash for Floors is a premium 40 mil self-adhesive waterproof membrane designed for use when a Class I vapor retarder membrane is required between concrete and flooring systems. It protects wood panel sub-floor systems and the finished floor above from the damaging effects of moisture vapor.

Composition: FortiFlash for Floors is composed of a self-sealing SBS modified asphalt core laminated to a cross-laminated, high-density polyethylene film reinforcement with a siliconized paper release sheet.

Size & Weight: FortiFlash is supplied in a convenient 36" width by 75' long roll. Weight is approximately 52 lbs. per roll.

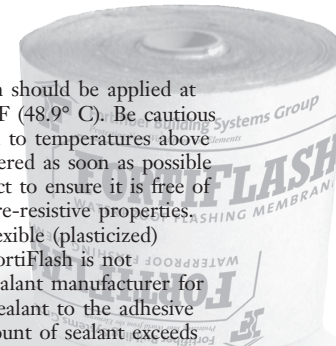
Applicable Standards: International Residential Building Code® and International Building Code® R202 Class I Vapor Retarder.

American Society for Testing & Materials (ASTM):

- ASTM D-146 - Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- ASTM D-412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
- ASTM D-779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method
- ASTM D-903 - Peel or Stripping Strength of Adhesive Bonds
- ASTM D-1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- ASTM E-96 - Water Vapor Transmission of Materials (Method A)
- ASTM E-154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover

Physical Properties: FortiFlash for Floors is continually tested in accordance with ASTM procedures. The values shown in Table 1 are averages obtained in these tests.

Installation: Obtain and follow the detailed installation instructions for FortiFlash for Floors, available at www.fortifiber.com. For best results when installing wood flooring materials, we suggest using a National Wood Flooring Association Certified Professional (NWSFACP).



Limitations: For optimum adhesion, FortiFlash should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature. Product should be covered as soon as possible (exposure not to exceed 45 days). Inspect product to ensure it is free of any damage which may compromise its moisture-resistive properties. FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes. FortiFlash is not compatible with some sealants. Consult with sealant manufacturer for compatibility information. Direct exposure of sealant to the adhesive side of FortiFlash can be detrimental if the amount of sealant exceeds what is specified in Fortifiber's installation guide. Please follow installation guide recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends using Moistop® Sealant and Liquid Flashing for any installation where sealant may come in contact with the FortiFlash adhesive.

Availability: The Fortifiber Building Systems Group's products are distributed nationwide through authorized flooring distributors. For product information and pricing, please call a Fortifiber distributor near you. If you need assistance locating a participating distributor, please call our Customer Service Department at 1-800-773-4777.

Fortifiber Warranty: This product may be eligible for our FortiFlash for Floors 15 year limited warranty when installed following manufacturer's recommendation and accepted industry practices. Please see our website at www.fortifiber.com/warranty.htm for details.

Fortifiber Corporation warrants that its products are in compliance with their published specifications and are free from defects in materials and workmanship for a period of two years from the date of purchase. This warranty does not apply to loss due to abuse. Material found to be defective will be replaced at no charge by Fortifiber, but in no event shall Fortifiber be liable for any other costs or damages, including any labor costs.

THIS EXPRESS WARRANTY IS GIVEN IN LIEU OF AND EXCLUDES ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Fortifiber's sole obligations under this warranty are as set forth herein. In no event shall Fortifiber be liable for any lost revenue or profits, direct, indirect, special, incidental or consequential damages of any kind.

SPECIFICATION SUMMARY: Provides self-adhesive Class I vapor retarder membrane for mechanically attached wood panel, screed or nail-down floating, sub-floor systems.

WATERPROOF FLOORING MEMBRANE: Fortifiber/FortiFlash for Floors 40 mil self-adhesive, self-sealing, SBS modified asphalt waterproof membrane laminated to high density, cross-laminated polyethylene film reinforcement.

Table 1- Physical Properties

CHARACTERISTIC	TEST METHOD	RESULT
Class I Vapor Retarder (IRC and IBC)	ASTM E-96 (Method A)	<0.05 perms
Water Resistance	ASTM D-779	>200 hours
Lap Adhesion	ASTM D-903	10 lb. f./inch
Puncture Resistance	ASTM E-154	40 lbf.
Application Temperature	-	40°F to 120°F (4.4°C to 48.9°C)
Service Temperature	AAMA 711	Level 2 -40°F to 149°F (-40°C to 65°C)



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A GUIDE TO INSTALLING FORTIFLASH® FOR FLOORS

CLASS I VAPOR RETARDER AND WATERPROOF MEMBRANE FOR FLOORING

THE DETAILS SHOWN HERE REFER TO GENERALLY ACCEPTED INSTALLATION PRACTICES
OF WOOD PANEL SUB-FLOORS ATTACHED OR FLOATED OVER CONCRETE

FortiFlash for Floors is a Class I vapor retarder and waterproof membrane for use over concrete under wood panel subfloors. It inhibits moisture migration from concrete to the wood sub-floor as well as the finished floor.

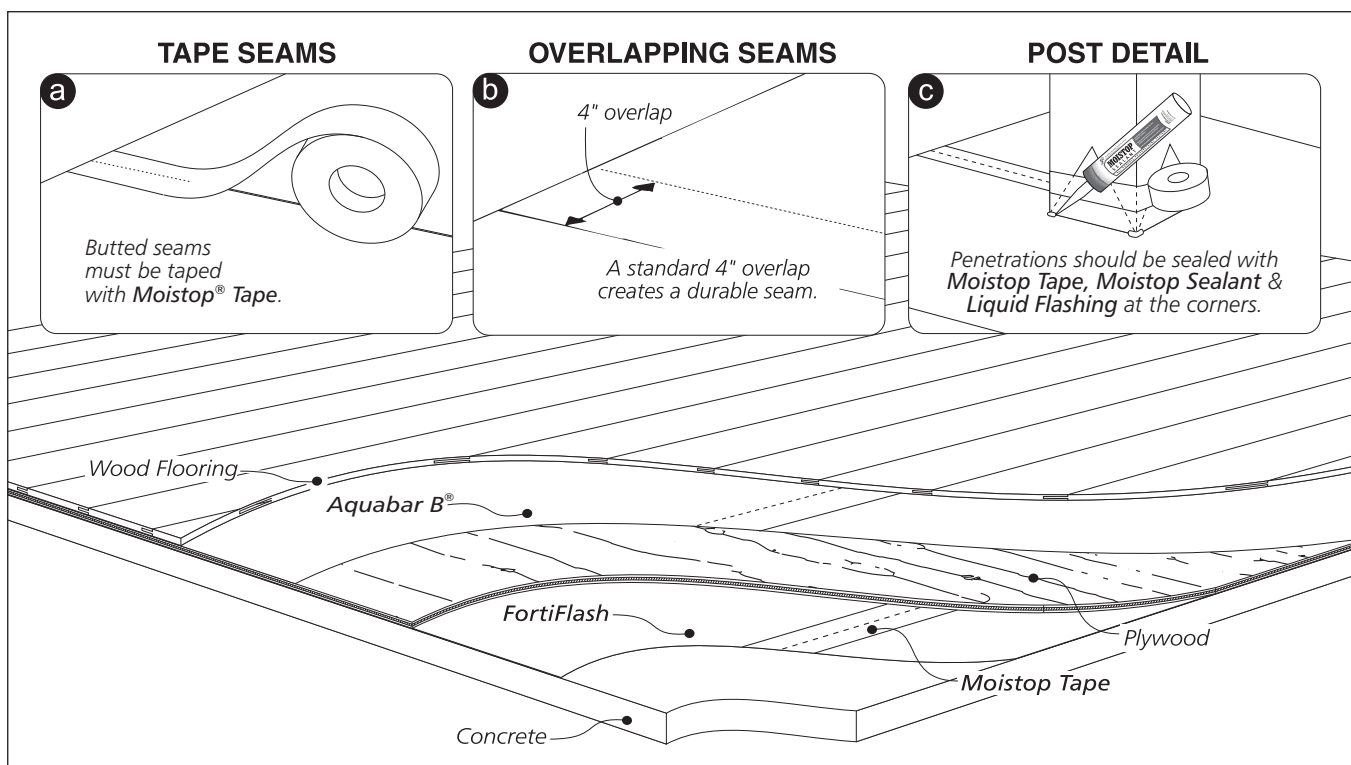
CONCRETE SUBSTRATE SPECIFICATIONS

- Always follow local building codes, NWA Guidelines and wood floor manufacturer's instructions for proper concrete slab conditions.
- Concrete slab must not be subject to hydrostatic pressure.
- Concrete must be cured a minimum 30 days prior to moisture testing.
- A slab is suitable for installation of **FortiFlash for Floors** Class I membrane with a moisture reading of at most one of the following:
 - by the Calcium Chloride test, ASTM F-1869, reading of ≤ 10 lbs
 - by the Relative Humidity test, ASTM F-2170, of $\leq 85\%$
 - by the Calcium Carbide test, ASTM D-4944 (modified), $\leq 4\%$
- Concrete surface areas requiring patching or leveling use cement based products.
- Concrete must be dry, flat, structurally sound, level,

and free of all surface debris, dirt, oil, sealers, loose or chalky concrete, and other contaminants. Vacuum and damp mop to remove dust.

FORTIFLASH FOR FLOORS FITTING

- For ease of installation, do not remove the release paper on **FortiFlash for Floors** prior to fitting. Fit to wall plates under drywall and door jambs.
- Fit **FortiFlash for Floors** in the largest sections possible, allowing for door openings, wall partitions and plumbing. This can be done by measuring or fitting **FortiFlash for Floors** directly over the surface to be covered, or use standard scribing-paper methods with **FortiFlash for Floors** to transfer measurements accurately. Once the largest sections have been properly positioned, use a sharp utility knife to cut out any openings and fit into place.
- **FortiFlash for Floors** is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes. **FortiFlash for Floors** is not compatible



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