

FORTIFLASH® OF FLOORS

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 40 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 40 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 performs in a manner similar to the traditional asphalt-felt-asphalt waterproofing systems of the past – with little or no odor – without the mess, extra labor and time involved with those installation materials. FortiFlash 40 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

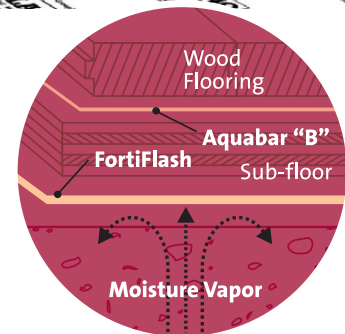
FortiFlash 40 can also be installed under floating floor systems, floating sub-floor systems and screed systems over concrete. When installed under nail-down floating floor systems it resists damage during installation of the sub-floor and protects the flooring system against moisture damage from below. It also

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

FortiFlash 40 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 40 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.

- HIGH MOISTURE RESISTANCE
- PREMIUM CLASS I VAPOR RETARDER
- SELF-SEALING PROPERTIES
- LOW VAPOR PERMEANCE



Product Description: FortiFlash 40 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 40 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 40 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 40 is continually tested in accordance with ASTM procedures. The values shown in Table 1 are averages obtained in these tests.

Limitations: For optimum adhesion, FortiFlash 40 should be applied at temperatures between 40° F (4.4° C) and 120° F

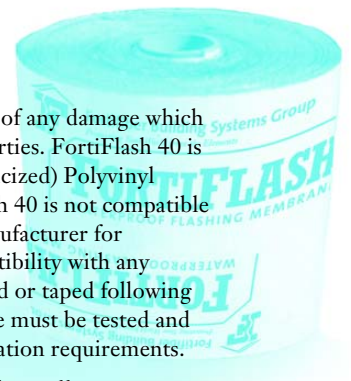
(48.9° C). Inspect product to ensure it is free of any damage which may compromise its moisture-resistive properties. FortiFlash 40 is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes. FortiFlash 40 is not compatible with some sealants. Consult with sealant manufacturer for compatibility information and test for compatibility with any sealants to be used. Seams must be overlapped or taped following Fortifiber's application instructions. Concrete must be tested and suitable for installation as described in application requirements.

Installation: Obtain and follow the detailed installation instructions for FortiFlash 40 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).

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: 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.

This product may be eligible for our FortiFlash for Floors 10 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.



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 40 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./inch
Puncture Resistance	ASTM E-154	40 lbf.
Application Temperature	-	40°F to 120°F (4.4°C to 48.9°C)
Service Temperature	-	-40°F to 158°F (-40°C to 70°C)



Fortifiber Building Systems Group®
Protecting Your World from the Elements®



Call 1-800-773-4777 or 1-775-333-6400 for sales and technical assistance. On the Internet visit www.fortifiber.com.