FortiFlash 40 is a Class I vapor retarder and waterproof membrane for use over concrete under wood panel sub-floors. 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, NWFA 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 40 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 ≤ 85%
  - by the Calcium Carbide test, ASTM D-4944 (modified), ≤ 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 40 FITTING**
- For ease of installation, do not remove the release paper on FortiFlash 40 prior to fitting. Fit to wall plates under drywall and door jambs.
- Fit FortiFlash 40 in the largest sections possible, allowing for door openings, wall partitions and plumbing. This can be done by measuring or fitting FortiFlash 40 directly over the surface to be covered, or use standard scribing-paper methods with FortiFlash 40 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 40 is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes. FortiFlash 40 is not compatible with
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some sealants. Consult sealant manufacturer and
test for interaction with any sealant to be used.

INSTALL FORTIFLASH 40 OVER CONCRETE

- After fitting, roll back half of the FortiFlash 40
  membrane to expose the concrete sub-floor.
- Test for adhesion. If FortiFlash 40 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 40 after primer
becomes tacky. Primer activates the bond between
FortiFlash 40 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 40.
- 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 40 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 40 or Moistop Tape. If
FortiFlash 40 folds and seals to itself, cut out
damaged area and install a repair piece using tape
and seal technique.
- Do not puncture FortiFlash 40 with flooring cleats or
staples when installing flooring. Never adhere
flooring directly to FortiFlash 40 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 40 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 40. Follow wood floor
manufacturer’s or NWFA Guidelines for proper
installation of floating floor or floating sub-floor systems.
Do not puncture FortiFlash 40 with cleats or staples
used to install flooring over nail down floating sub-floor
systems.

FORTIFLASH 40 FOR FLOORS WARRANTY

This product may be eligible for a 10 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.