



Millennium Series 4018

Urethane Wood Adhesive and Moisture Barrier

Millennium Series

DESCRIPTION:

Millennium Series 4018 Urethane Wood Adhesive and Moisture Barrier is a high-performance, one-component, urethane adhesive formulated to be used as an adhesive or as a moisture vapor barrier. This adhesive requires no pre-installation moisture testing*. 4018 can be used for glue-down installations on all grades for all types of engineered, solid or acrylic impregnated wood flooring, and bamboo flooring, designed to be installed using the glue-down installation method. When used as an adhesive & moisture barrier, 4018 reduces moisture to acceptable limits.

SUBFLOOR PREPARATION:

The subfloor must be checked according to NWFA guidelines. Ensure that the subfloor is structurally sound, properly cured, smooth, dry, clean and free from dust, dirt, grease, oil, plaster, paint, old adhesive, wax, curing agents, sealers, cutback, other asphaltic-based residue and any other contaminants that could interfere with a good adhesive bond.

Concrete Slab: Must be cured at least 28 days. Do not use in areas subject to hydrostatic pressure or with pre-existing moisture conditions. pH should be between 7-10. The subfloor must be dry to the touch and not visibly damp. Slab must be prepared to receive flooring in compliance with ASTM F710 and NWFA guidelines. Slabs over a year old with high moisture readings indicate a moisture problem related to hydrostatic pressure, broken water pipes, or improper maintenance. These issues are not covered by our warranty.

Terrazzo: Surface should be sanded so that all polishes and glaze compounds are stripped. After sanding, thoroughly vacuum and clean the substrate with mineral spirits and allow to dry before installing the wood flooring.

APA approved Plywood and OSB Type Subfloors: Panels must be securely fastened. Eliminate all movement with screws. Sand all high joints. Fill and patch low areas. Refer to wood flooring manufacturer for guidelines of moisture content difference between properly acclimated wood flooring and subfloor materials.

Radiant Heated Subfloors: Check flooring manufacturer's specifications to determine if the wood flooring is approved over radiant heated subfloors. 4018 is approved for use on hydronic system radiant heated subfloors, provided the system is fully embedded in concrete. Lightweight toppings must be primed first. Turn off the heat 48 hours prior to the installation and leave the heat off until 48 hours after the installation is completed.

INSTALLING THE FLOOR:

Installing wood flooring with no pre-installation moisture testing:

1. Subfloor must be flat [3/16" (4.8 mm) in 10' (3.05 m) radius or 1/8" (3.2 mm) in 6' (1.8 m) radius].
2. Follow all manufacturer's instructions and guidelines.
3. Reference trowel chart for proper trowel.
4. Trowel the adhesive parallel to wood flooring in 2'-3' (.6-.9 m) sections and place wood immediately into adhesive. Spread adhesive beyond where the last row of flooring stops to ensure there are no voids between stopping and starting points. 100% adhesive coverage is required for moisture protection.
5. Repeat steps 3-4.
6. Trowels will wear down over time and must be changed to achieve correct coverage.

Glue down only application:

1. Subfloor must be flat [3/16" (4.8 mm) in 10' (3.05 m) radius or 1/8" (3.2 mm) in 6' (1.8 m) radius]. Subfloor moisture levels must not exceed wood flooring manufacturers guidelines. If it does, use the moisture control method.
2. Follow all manufacturer's instructions and guidelines.
3. Reference the trowel chart and select the correct trowel for your application.
4. Do not spread more adhesive than can be covered within 30-45 minutes.
5. Good transfer of the adhesive to the wood is critical. Coverage should be approximately 90%. Pull back a newly installed board periodically and inspect the coverage.
6. Trowels will wear down over time and must be changed to achieve correct coverage.

RECOMMENDED SUBSTRATES:

- Concrete
- Portland cement patch
- Terrazzo
- Ceramic tile
- APA approved wood panels
- Radiant heat flooring
- Cement backer board

CLEAN-UP:

Remove the adhesive from the wood floor surface as soon as possible before the adhesive dries. Use a soft cloth and mineral spirits carefully to not harm the finish. Clean equipment and tools with mineral spirits while the adhesive is still wet.

CAUTION: Mineral spirits are flammable. Read and follow all precautions on container label.

*No moisture testing or mitigation needed when there is no visible moisture present.



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RESTRICTIONS:

1. Do not use where there is hydrostatic pressure
2. Indoor use only
3. Do not use over substrates or slabs treated with sealers or curing compounds
4. Do not use on wet, dusty, contaminated or brittle substrates

PACKAGING:

- One 3.5 Gallon (13.265 L) Pail

COVERAGE:

Moisture Control Method

Engineered plank or bamboo 5/8" (16 mm) or less:

3/16" x 1/4" (4.8 mm x 6.4 mm) V-notch;
35-40 sq.ft/gal (3.3-3.7 m²/3.78 L)

3/4" (19 mm) Solid wood planks and shorts or

plywood: 1/4" x 1/4" (6.4 mm x 6.4 mm) V-notch;
30-35 sq.ft/gal (2.8-3.3 m²/3.78 L)

Glue Down Only

Engineered plank or bamboo 1/2" (12.7 mm) or less and less than 7" (178 mm) wide: 3/16" x 1/4" x 1/2" (4.8 mm x 6.4 mm x 12.7 mm) V-notch trowel; 60-70 sq.ft/gal (5.6-6.5 m²/3.78 L)

Engineered plank or bamboo thicker than 1/2" (12.7 mm) or 7" (178 mm) or wider: 3/16" x 3/16" x 3/16" (4.8 mm x 4.8 mm x 4.8 mm) sq. notch;

35-45 sq. ft/gal (3.3-4.2 m²/3.78 L)

Solid wood planks and shorts or plywood: 1/4" x 1/4" x 1/4" (6.4 mm x 6.4 mm x 6.4 mm) sq. notch; 25-30 sq ft/gal (2.3-2.8 m²/3.78 L)

WARRANTY:

H.B. Fuller Construction Products Inc. offers a limited warranty for EMC 4011 for the life of the floor to the original purchaser and is not assignable nor transferable. A copy of the limited warranty can be obtained by calling technical service at (800) 763-7272 or contacting your local sales representative.

Technical Data	
VOC Content	No VOCs
pH	N/A
Consistency	Creamy liquid
Trowelability	Smooth
Shelf Life	One year in unopened container
Storage	40°-95°F (4°-35°C) in a cool dry location
Application Temperature	65°-95°F (18°-35°C)
Traffic Restrictions	Foot traffic: After 8 hours, heavy traffic 24 hours
Open Time	Up to 45 minutes, depending on ambient conditions
Freeze Thaw Stability	Store above 40°F (4°C) in a cool dry location