

## HARDWOOD FLOORING UNDERLAYMENT

In the battle against interior moisture damage, the best defense is a strong offense. When you block moisture vapor from creeping behind finish materials or reaching moisture-sensitive substrates, you help increase the useful life and appearance of finish surfaces. To help with the battle, Mullican Flooring's Moisture Mat is an inexpensive insurance to reduce moisture-related problems.

Moisture Mat floor underlayment is an extremely effective moisture vapor retarder for use under hardwood floors. Consisting of two layers of kraft paper laminated with asphalt, Moisture Mat is a non-reinforced 10/30/30 duplex type Grade "B" paper.

### **An Investment that Pays Dividends**

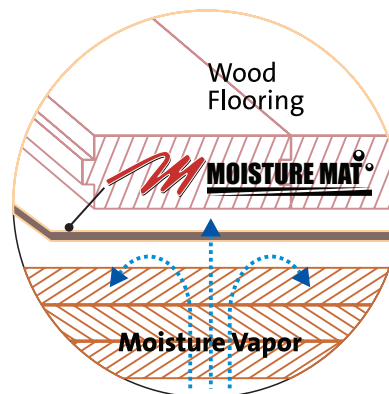
Moisture Mat is often considered to be cleaner and easier to work with than other materials, such as roofing felt. Because it is an effective moisture vapor retarder, Moisture Mat reduces vapor migration to help protect wood floors.

### **Ideal for Wood Flooring**

With a moisture vapor permeance of less than 1, Moisture Mat is a superior vapor retarder under wood flooring applications. Moisture Mat helps slow moisture vapor originating below the floor system, allowing the wood flooring to acclimate gradually. By reducing the rate of moisture migration, Moisture Mat protects against moisture vapor related floor problems such as bucking, cupping or cracking. As a semi-permeable material, Moisture Mat is much less likely to trap moisture condensation between it and the sub-floor. Moisture Mat also acts as a "slip sheet" to minimize dust and reduce noise.

- High Moisture Resistance
- Low Vapor Permeance
- 30/30/30 Construction
- Clean & Easy Installation

**"An extremely effective moisture vapor retarder for use in a variety of interior construction applications."**



Moisture Mat helps slow moisture vapor originating below the floor system.

**Product Description:** Moisture Mat is a semi-permeable moisture vapor retarder or cleavage membrane for use under wood floor installations. Moisture Mat is rated for “moderate” water-vapor resistance.

**Composition:** Moisture Mat is a 30/30/30 Grade B asphalt laminated duplex type kraft paper.

**Size & Weight:** Moisture Mat is supplied in 36” wide by 167’ lineal feet (500 sq. ft.) and 334’ lineal feet (1000 sq. ft.) rolls; product weight is approximately 3 lbs/100 sq. ft.

**Applicable Standards:** Exceeds Federal Specification UU-B-790a, Type I, Grade B, Style 1a.

**American Society for Testing & Materials (ASTM)**

- ASTM D-779 - Standard Test Method For Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method.
- ASTM D-828 - Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus.
- ASTM E-96 - Water Vapor Transmission of Materials.

**Physical Properties:** Moisture Mat is continually tested in accordance with ASTM procedures. The values shown in Table 1 are averages obtained in these tests.

**Limitations:** Moisture Mat flooring underlayment is not a waterproof membrane and should not be used in waterproofing assemblies or where a waterproof membrane is specified. Do not leave exposed to direct moisture contact or use in areas that are soaked or saturated for extended periods of time, such as gang showers, saunas, steam rooms, pools, hot tubs and exterior areas. **Not recommended over a radiant heat system**, which may result in asphalt odor. Not recommended for use in exterior wall assemblies. Properly prepared sub-floors or job site conditions and proper installation of flooring are the responsibility of the installer.

**Installation - Wood Floors:** For wood flooring installations, follow the wood flooring manufacturer's instructions, NWEA Installation Guidelines, and local building codes for proper installation of wood flooring over the sub-floor. Wood sub-floor must be dry and tested for moisture, flat with high spots sanded and low spots filled, structurally sound, and free of protrusions, debris or contaminants.

**Warranty:** Mullican Flooring warrants that its products will perform to their published specifications when used in applications recommended by Mullican Flooring and installed according to accepted industry standards and Mullican Flooring installation procedures.

<p><b>SPECIFICATION SUMMARY:</b> Provides moderate moisture and moisture vapor retarder underlayment beneath wood flooring.</p> <p><b>MOISTURE VAPOR RETARDER:</b> Moisture Mat two-layer, asphalt laminated kraft Grade B paper.</p> <p><b>REFERENCE SPECIFICATION:</b> Federal Specification UU-B-790a, Type 1, Grade B, Style 1a</p>	TABLE 1- PHYSICAL PROPERTIES			
	Characteristic	Test Method	Results	Industry Standard
	Water Vapor Transmission	ASTM E-96 (A)	< 1 perm	< 1 perm
	Water Resistance	ASTM D-779	16+ hours	16 hours (min.)
Tensile Strength	ASTM D-828	MD - 20 lb.f/inch CD - 20 lb.f/inch	MD - 20 lb.f/inch CD - 20 lb.f/inch	