

SECTION 096109

PRE-FORMED MOISTURE SUPPRESION MEMBRANE UNDERLAYMENT

Part 1
1.1 GENERAL
SECTION INCLUDES

- .1 Pre-formed moisture suppression membrane installed over concrete subfloor as a floor covering underlayment.

1.2 RELATED SECTIONS

- .1 Section [_____ - Concrete Repair]: Repair and patching of concrete subfloor.
- .2 Section [_____ - _____]: Laminated Wood Flooring.
- .3 Section [_____ - _____]: Resilient Tile Flooring. (SVT/ LVT/ VCT)
- .4 Section [_____ - _____]: Carpet Tile.
- .5 Section [_____ - _____]: Carpet, Broadloom and Roll Goods.

1.3 REFERENCES

- .1 ASTM International
 - .1 D2646-05- Standard test Methods for Backing Fabric Characteristics of Pile Yarn Floor Coverings
 - .2 D3273-00- Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 - .3 D5729-97 (2004)e1 – Standard Test Method for Thickness of Nonwoven Fabrics
 - .4 E-96-05 – Standard Test Methods for Water Vapor Transmission of Materials
 - .6 F 2170-09 – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

1.4 SUBMITTALS

- .1 Section [_____] – Submission procedures.
- .2 Product Data: Provide data indicating product physical characteristics, performance criteria, and limitations of use,
- .3 Manufacturer’s Current Installation Instructions
- .4 Manufacturer’s warranty registration with concrete subfloor moisture test results and building ambient air temperature and relative humidity test results..

1.5 COORDINATION

- .1 Section [01 31 00] [_____]: Coordination with other work having a direct bearing on work of this section.
- .2 Coordinate the work of this section and directly related sections with concrete floor construction and repair.
- .3 Coordinate the work of this section and directly related sections with finish flooring work.

Part 2 PRODUCTS

2.1 MANUFACTURERS

- .1 Halex Corporation , VersaShield
 - .1 Location: 750 S. Reservoir Street, Pomona, CA 91766
 - .2 Phone: 800-576-1636 – Fax: 800-576-1635
 - .3 Web Site: www.halexcorp.com

2.2 MOISTURE SUPPRESSION SYSTEM FOR FLOORING PRODUCTS

- .1 Product name: VersaShield Flooring Underlayment
 - .1 Material: Free-standing, dimensionally stable, 4-ply composite product, engineered as a moisture suppression membrane to be used on concrete floors where high moisture exists.
 - .2 Dimensions: [144 ft long by 5 ft wide] standard roll.
 - .3 Mold, Mildew & Fungal Resistance, ASTM D3273: 10 rating
 - .4 Moisture Vapor Transmission rate, ASTM E96-05: less than 0.01 g/hr/ sq m
 - .5 No substitutions permitted
- .2 Accessories: VersaShield tape
 - .1 Application: Joining of moisture suppression underlayment seams
 - .2 Description: Membrane manufacturer’s moisture suppression tape with pressure sensitive adhesive.
 - .3 Properties: Moisture suppression and adhesion per manufacturer’s specifications
 - .4 Supplied as: 2 inch by 180 ft rolls

- .5 No substitutions permitted

Part 3 EXECUTION

3.1 EXAMINATION

- .1 Section 017000: Verify existing conditions before starting work.
- .2 Concrete Sub Floor:
 - .1 Verify internal RH of the concrete according to ASTM F-2170-09.
 - .1 Record readings and submit with manufacturer's warranty registration.
 - .2 Do not install if relative humidity levels within the concrete exceed 95% RH.
 - ..

3.2 Preparation:

- .1 New or Remedial Installation
 - .1 Concrete Sub Floor
 - .1 Prepare floor according to VersaShield manufacturer's instructions including removal of existing materials on concrete surface, grinding protrusions flat, and filling low spots with water-resistant cementitious patching or leveling compound. Patch cracks greater than 1/8-in. width using VersaShield manufacturer's approved crack mending compound.
 - .2 Remove debris and excessive dust from the surface.

3.3 UNDERLAYMENT INSTALLATION

- .1 Install moisture suppression membrane with smooth film side facing concrete slab.
- .2 Install in accordance with membrane manufacturer's current written installation instructions.
- .3 If any jobsite condition interferes with compliance with manufacturer's instructions, contact manufacturer and obtain written job-specific procedures. Notify architect or owner's representative as required in the Quality Section of this project manual describing the interfering jobsite condition and manufacturer's job-specific instructions.

3.4 FLOORING INSTALLATION

- .1 Adhesives - Apply adhesive to mineral-coated surface of moisture suppression membrane. Use only water-based adhesives. Do not use solvent-based adhesives.
- .2 Protection - Protect moisture suppression membrane from damage during flooring installation. Do not tear, rip, puncture, or delaminate membrane when applying trowel-on adhesive. Repair damaged areas according to membrane manufacturer's instructions before flooring installation. Provide continuous, intact moisture suppression membrane under entire designated flooring area.
- .3 Install flooring according to flooring manufacturer's instructions
- .A [Laminate] [or] [Engineered Wood] ;
 - .1 Install to manufacturer's instructions for floating floors.
 - .2 Refer to Section [] for flooring installation.

[OR]

- .B [Broadloom Carpet] [and] [or] [Tile Carpet]:
 - .1 Adhere directly to moisture suppression membrane using carpet manufacturer's recommended adhesive.
 - .2 Refer to Section [] for carpet installation.

[OR]

- .C [Vinyl Tile];
 - .1 Adhere directly to moisture suppression membrane using tile manufacturer's recommended adhesive.
 - .2 Refer to Section [] for tile installations.

END OF SECTION