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SECTION 07 26 00

BELOW-GRADE VAPOR RETARDER

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide vapor retarder system for below grade and slab-on-grade concrete, including sealing joints and protrusions through vapor retarder and sand bed below vapor retarder.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's literature.

1.3 PROJECT CONDITIONS

- A. Do not apply vapor retarder during inclement weather or when air temperature is below 40 degrees F.

**PART 2 - PRODUCTS**

2.1 SYSTEMS MANUFACTURERS

- A. Fortifiber Corp./Ultra 15.
- B. Stego Industries, Inc./Stego Wrap (15 mil).
- C. Raven Industries, Inc./Vapor Block # VB 15 (15 mil Blue).
- D. Substitutions: Refer to Section 01 25 00.

2.2 MATERIALS

- A. System Description Includes: Provide vapor retarder system for below grade and slab-on-grade concrete, including sealing joints and protrusions through vapor retarder and sand bed below vapor retarder.
- B. Vapor Retarder: ASTM E1745, Class A vapor retarder consisting of 15 mil polyolefin film.
  - 1. Permeance: Maximum 0.025 perms, ASTM F1249 and E154 tests.
  - 2. Resistance to Puncture: Minimum 2200 grams, ASTM D1709, Method B.
  - 3. Tear Resistance: Minimum 8.74 lbs., ASTM D1004.
  - 4. Tensile Strength: Minimum 35 lbs/in., ASTM E154, Section 9, Method D-882, in both directions.

- C. Joint Sealer: Pressure sensitive tape as recommended by vapor retarder manufacturer and providing comparable permeance to vapor retarder.
- D. Sand Bed: Clean natural sand; free from silt, clay, loam, friable or soluble materials, and organic matter.

### **PART 3 - EXECUTION**

#### **3.1 PREPARATION**

- A. Ensure sleeves, curbs and projections that pass through vapor retarder are properly and rigidly installed.
- B. Ensure substrate is free of projections and irregularities that may be detrimental to proper installation of vapor retarder.

#### **3.2 INSTALLATION**

- A. Spread and roll sand to provide smooth, even bed for vapor retarder.
- B. Apply vapor retarder in accordance with manufacturer's recommendations and installation instructions and in accordance with ASTM E1643; comply with most restrictive where conflicts occur.
  - 1. Seal items projecting through vapor retarder with pressure sensitive tape.
- C. Seams: Minimum 12" overlap, sealed with pressure sensitive tape for vapor tight seal.
- D. Lay vapor retarder membrane smooth with no fishmouths or bunches of material.
- E. Inspect and repair vapor retarder prior to application of concrete slab; tape tears and repair damage.

**END OF SECTION**