

## SECTION 04300 - COLD APPLIED WAX TAPE COATING

### PART 1 - GENERAL

#### 1.1 WORK INCLUDED IN THIS SECTION

- A. The WORK of this Section includes materials and application of a three part, cold applied wax tape coating system for buried piping. The coating system shall be in accordance with AWWA C217 and as modified herein.

#### 1.2 SUBMITTALS

- A. The following shall be submitted in compliance with Section 01300.
  1. Manufacturer's catalog data sheets.
  2. Manufacturer's application instructions.

### PART 2 - PRODUCTS

#### 2.1 PRIMER

- A. Primer shall be a blend of petroleum, plasticizer, and corrosion inhibitors having a paste-like consistency. The primer shall have the following properties:

- |                |                          |
|----------------|--------------------------|
| 1. Color       | Brown                    |
| 2. Pour Point  | 100°F to 110°F           |
| 3. Flash Point | 350°                     |
| 4. Coverage    | 1 gallon/100 square feet |

- B. Primer shall be Trenton Wax Tape Primer or equal.

#### 2.2 WAX TAPE

- A. Wax tape shall consist of a synthetic-fiber felt, saturated with a blend of microcrystalline wax, petroleum, plasticizer, and corrosion inhibitors, forming a tape coating that is easily formable over irregular surfaces. The tape shall have the following properties:

- |                        |                |
|------------------------|----------------|
| 1. Color               | Brown          |
| 2. Saturant Pour Point | 115°F to 120°F |
| 3. Thickness           | 50 to 70 mils  |
| 4. Tape Width          | 6 inches       |
| 5. Dielectric Strength | 100 volts/mil  |

- B. Wax tape shall be Trenton No. 1 Wax Tape or equal.

## 2.3 PLASTIC WRAPPER

- A. Wrapper shall be a polyvinylidene chloride plastic with three 50-gauge plies wound together as a single sheet. The wrapper shall have the following properties:
- |               |          |
|---------------|----------|
| 1. Color      | Clear    |
| 2. Thickness  | 1.5 mils |
| 3. Tape Width | 6 inches |
- B. Plastic wrapper shall be Trenton Poly-Ply or equal.

## PART 3 - EXECUTION

### 3.1 WAX TAPE COATING APPLICATION

- A. Surfaces shall be clean and free of all dirt, grease, water, and other foreign material prior to the application of the primer and wax tape.
- B. Primer shall be applied by hand or brush to all surfaces of the pipe, fitting, flanges, and bolts to be wrapped by wax tape. The primer shall be worked into all crevices, around bolts and nuts, into the threads, and shall completely cover all exposed metal surfaces. The primer shall be extended beyond the indicated limits of application a minimum of 3 inches onto adjacent surfaces of the piping.
- C. Wax tape shall be applied immediately after the primer application. The tape shall be worked into the crevices around the fitting or flanges. Short lengths of tape shall be cut, placed over each bolt head and nut, and worked into the crevices. The wax tape shall be wrapped spirally around the pipe and across the fitting or flanges. A minimum overlap of 55 percent of the tape width shall be used.
- D. The tape shall be worked into the crevices and contours of irregularly shaped surfaces and smoothed out so that there is a continuous protective layer with no voids or spaces under the tape.
- E. The completed wax tape coating installation shall be overlapped with the plastic wrapping material. Wrap spirally around the pipe and across the fitting or flanges. Use a minimum overlap of 55 percent of the tape width and apply two layers or applications of overwrap. Plastic wrapper shall be secured to pipe with adhesive tape.

### 3.2 POLYETHYLENE ENCASEMENT

- A. Completed wax tape coating system shall be wrapped with polyethylene sheet per Section 04200 and secured around the adjacent pipe circumference with adhesive tape.

END OF SECTION