

### **SECTION 07900 - CAULKING AND SEALANTS**

#### 07900.0100 GENERAL

1. The work under this section is subject to all applicable provisions of the "Bidding Requirements", the "Conditions of the Contract", "Contract Forms" and Division 1 - "General Requirements", which form a part hereof whether attached hereto or not.

#### 07900.0200 WORK INCLUDED

1. Include all labor, materials and appliances and perform all operations in connection with the installation of caulking and all related work, complete, in strict accordance with the Contract Drawings and as specified herein or reasonably implied.
  - a. Complete caulking between structure and frames of all windows, doors, louvers and any and all other items in exterior walls, between concrete, door saddles and other joints and/or openings without exception as required for tightness.
  - b. Caulking around all interior frames.
  - c. Caulking of control and/or expansion joints.
  - d. Other caulking as shown on the drawings, and not specified under other sections of the specifications.

#### 07900.0300 RELATED WORK SPECIFIED ELSEWHERE

1. Doors and Windows - Division 8.

#### 07900.0400 DELIVERY AND STORAGE

1. Deliver, store and handle materials in a manner to prevent the inclusion of foreign materials and damage. Deliver and store packaged materials in original sealed containers until ready for use. Delivery materials in ample time to facilitate inspection and test.
2. Package materials showing evidence of damage will be rejected.

#### 07900.0500 SAMPLES

1. Submit the following samples of material for approval, in accordance with the requirements of the Supplementary General Conditions:
  - a. Caulking compound: 1/2 pint containers of each in original manufacturer's containers with labels intact and seals unbroken.

- b. Primer: Pint containers.
- c. Oakum: 1 pound.
- d. Joint Packing: 10'-0" strip.
- e. Install sample caulked joint of each type, at the site and obtain approval of same before proceeding with the work.

07900.0600 MATERIALS

- 1. Caulking and Sealing Compound (Exterior): Construction joints around door frames and window enframements, under sills and door saddles and where shown on the drawings; shall be Tremco Manufacturing Company's "Dymetric" plus or equal. Colors as selected by the Architect.
- 2. Caulking Compound (Interior): For around windows and interior door frames, for door saddles and where shown on the drawings; shall be "Tremco Manufacturing Company's "Spectrem" or other approved equal. Colors as selected by the Architect.
- 3. Primers: Apply as required to the surfaces to be caulked; shall be as made by the manufacturer of the caulking and sealing compounds as approved by the Architect; of composition which will not stain or discolor the materials with which it comes in contact; and applied in accordance with the manufacturer's instructions.
- 4. Oakum: Hand picked dry spun oakum. Use for interior work only.
- 5. Joint Packing: Approved closed cell type as made by Everlastic or equal non-absorbing and non-staining.

07900.0700 APPLICATION

- 1. General: Apply in accordance with the manufacturer's instructions as approved by the Architect and as herein specified.
- 2. Preparatory work:
  - a. Joints and spaces to be caulked shall be cleaned thoroughly of mortar and other foreign and deleterious materials before caulking.
  - b. Joints and spaces shall be not less than 1/4" wide and 1/2" deep.
  - c. Joints and spaces shall be thoroughly dry before installing caulking compound.

3. Priming: Immediately prior to caulking, prime sides of joints as required with specified primer.
4. Caulking shall not be applied at a temperature of below 40 degrees F.
5. Caulking:
  - a. Unless otherwise indicated and specified herein, caulking joints and spaces which are open to depth greater than 3/4" shall be solidly filled with picked oakum or joint packing to within 3/4" of surface before caulking. Pack tightly and make continuous throughout length of joints.
  - b. In joints less than 1/4" wide, omit packing and completely fill with caulking compound. Solidly, fill open depth of joints with caulking compound. (For joints other than masonry).
  - c. If maximum depth of joint is less than 3/4", due to design, then fill completely with caulking compound.
6. Method of Application: Apply caulking compound by approved type of caulking gun in accordance with the manufacturer's instructions, and as herein specified. Where use of gun is not practicable, use suitable hand caulking tools. Avoid applying compound to surfaces outside caulking joints.
  - a. Frames: Caulk joints at perimeter of outside face of all exterior doors, window enframements, louver and other frames and penetrations. Perimeter includes sills, heads, jambs, also mullions where detail requires caulking.
  - b. Jambs and Mullions: Caulk joints at bottom of jambs and mullions at exterior openings.
  - c. Door Saddles: Spread bed of caulking compound over entire seat of exterior metal door saddles and sills. Thickness of compound shall be sufficient to form solid bed. Remove excess compound after setting and neatly point joints between sills or saddles and sub-sills. Caulk joints between sills, saddles and frames at jambs and mullions.
  - d. Caulk around items passing through walls, at outside faces.
  - e. Caulking Generally: Caulk joints where indicated, specified or required for tightness.
  - f. Pointing: Neatly point caulking and finish to match adjacent mortar joints, unless otherwise required. Point exterior joints window, door and other frames to make a slightly concave joint, the edges flush with the surfaces of the frames. Caulked

joints on the interior side of the frames shall be neatly pointed flush with adjoining work.

7. Cleaning: Immediately clean thoroughly adjacent materials which have been soiled. Leave work in neat and clean condition as approved.

07900.0800 DEFECTIVE WORK

1. Work under this Section shall be watertight. Repair defects in work due to faults in materials, method and workmanship. Do all work necessary to make work watertight. Correct other defects. Make good any work damaged by such defects or by renewal of caulking.

07900.0900 GUARANTEE

1. Guarantee in accordance with the Supplementary General Conditions that the caulked joints will be thoroughly watertight for a period of two years after completion and acceptance, as evidenced by date of final payment.

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