

## SECTION 07920 - SEALANTS AND CAULKING

### City of San Diego, CWP Guidelines

#### PART 1 - GENERAL

##### 1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing sealants, caulking, and accessories.

##### 1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
  - 1. Section 03290 Joints in Concrete Structures
  - 2. Section 08800 Glazing

##### 1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:
  - 1. Uniform Building Code

##### 1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:
  - 1. Fed. Spec. TT-S-001543A Sealing Compound, Silicone Rubber Base, (For Caulking, Sealing and Glazing in Buildings and Other Structures).
  - 2. Fed. Spec. TT-S-00230C(2) Sealing Compound, Elastomeric Type, (For Caulking, Sealing, and Glazing in Buildings and Other Structures).

##### 1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:
  - 1. Manufacturer's product data including catalogue cuts.
  - 2. Manufacturer's installation instructions.
  - 3. Certification that products comply with indicated requirements.

##### 1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. **Delivery of Materials:** Products shall be delivered in original, unbroken packages, containers, or bundles bearing the name of the manufacturer.
- B. **Storage:** Products shall be carefully stored in a manner that will prevent damage and in an area that is protected from deleterious elements.

## PART 2 - PRODUCTS

### 2.1 GENERAL

- A. **General:** Only products certified as complying with the indicated requirements shall be provided.
- B. **Products:** Products shall be new, of current manufacture, and shall be the products of reputable manufacturers specializing in the manufacture of such products.
- C. **Manufacturer's Recommendations:** Products shall be recommended by the manufacturer for the application indicated.

### 2.2 SEALANTS AND CAULKING MATERIALS

- A. Caulking and sealing materials shall conform to the following requirements:
  - 1. Sealant for exterior and interior use shall be 2-part polyurethane, gun grade.
  - 2. Sealant for interior use shall be 1-part acrylic triopolymer sealant.
  - 3. Sealants used with aluminum doors, windows, [storefronts,] and frames shall be silicone sealant conforming to Federal Specifications TT-S-001543A (Class A) and TT-S-00230C(2) (Type II, Class A).
  - 4. Acoustic caulking compound shall be nonskinning synthetic polymer.
  - 5. Acoustic sheet caulking shall be resilient synthetic polymer, self-adhesive, 1/8-inch thick sheet acoustic sealer.
  - 6. Fire-resistant penetration sealants shall be a medium density fire-resistant foam that retains form and stability at high temperature and meets UL test requirements for fire rating required at location used.
  - 7. Caulking tapes shall be of the butyl-base, vulcanized type.
  - 8. Filler material shall be resilient, closed-cell polyethylene foam and/or bond breakers of proper size for joint widths and shall be compatible with sealant manufacturer's product.
  - 9. Primers shall be as recommended by the manufacturer for caulking and sealants.
  - 10. Cleaning and cleanup solvents shall be as recommended by the manufacturer for caulking and sealants.

### 2.3 MANUFACTURERS

- A. Products shall be of the type and manufacture as indicated below (or equal):
  - 1. Sealant for Exterior and Interior Use:

Products Research Corp. "210"  
Progress Unlimited "Iso-Flex 2000"

2. Sealant for Interior Use:

Tremco's "Mono"  
Dap "One-Part Acrylic"

3. Acoustic Caulking Compound:

Presstite "579.64"  
Lowry "Acoustical Sealer"

4. Acoustic Sheet Caulking:

Lowry "Electrical Box Pad"  
Presstite "579.6"

5. Fire-resistant Penetration Sealant:

Dow-Corning Corporation's "3-6548 Silicone RTV" foam  
3M Corporation's "Fire Barrier Caulk CP 25"  
Putty Corporation's "Fire Barrier Caulk CP 25"  
Putty Corporation's "303"

### PART 3 - EXECUTION

#### 3.1 GENERAL

- A. **General:** Products shall be installed in accordance with the manufacturer's installation instructions.
- B. **Authorized Installers:** Caulking and sealants shall be complete systems, and shall be installed only by installers authorized and approved by the manufacturer.
- C. **Acoustic Partition Joints:** Acoustic partition joints shall be made air and sound-tight with acoustic caulking material.

#### 3.2 SEALANT FILLED JOINTS

- A. **Manufacturer's Representative:** The WORK includes the services of the sealant manufacturer's representative (prior to sealant work) for inspection of the joints and for instructing the installer in the proper use of the materials.
- B. **Surface Preparation:** Joints and spaces to be sealed shall be clean, dry, and free of dust, loose mortar, and other foreign materials. Ferrous metal surfaces shall be cleaned of rust, mill scale, and other coatings by wire brush, grinding, or sandblasting. Oil and grease shall be removed by cleaning in accordance with sealant manufacturer's recommendations. Protective coatings shall be removed from aluminum surfaces against which caulking or sealing compound is to be placed. Bituminous or resinous materials shall be removed from surfaces to receive caulking or sealants.
- C. **Sealant Depth:** Sealant depth in joints shall be 1/2 the width of joint, but not less than 1/8-inch deep and 1/4-inch wide nor more than 1/2-inch deep and 1-inch wide. Joints shall have a rigid filler material installed to proper depth prior to application of sealant.

- D. **Joints In Porous Materials:** Where required by the manufacturer, sides of joints of porous materials shall be primed immediately prior to caulking or sealing.
- E. **Applications:** A full bead of sealant shall be applied to the joint under sufficient pressure, with the nozzle drawn across sealant, to completely fill the void space and to ensure complete wetting of contact area to obtain uniform adhesion. During application, the tip of the nozzle shall be kept at the bottom of the joint to ensure forcing the sealant to fill from the bottom to the top. Sealants shall be tooled immediately after exposure with caulking tool or soft bristled brush moistened with solvent. The finished sealant filled joint shall be slightly concave unless otherwise indicated.
- F. **Cleaning:** After application of sealant and caulking materials, adjacent materials which have been soiled shall be cleaned and left in a neat, clean, undamaged or unstained condition. On porous surfaces, excess sealant shall be removed in accordance with the sealant or caulking manufacturer's printed instructions.

### 3.3 ACOUSTIC CAULKING

- A. **Preparation:** Joints and surfaces shall be clean, dry, and free of loose materials.
- B. **Concealed Joints:** Concealed joints in acoustic partitions including perimeters, intersections of walls and penetrations through finish work, and at conduit ends with boxes shall be sealed with acoustic caulking compound. Backs of electrical boxes shall be sealed with acoustic sheet caulking installed over holes and knock-outs.

\*\* END OF SECTION \*\*