

SECTION 079200

JOINT SEALANTS

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

- A. The work under this Section shall generally consist of, but not necessarily be limited to, providing all labor, material, devices and equipment required for the application of:
 - 1. Caulking associated with gutters, downspouts and fascia.
 - 2. Miscellaneous caulking
- B. All work under this section shall be in compliance with other trades and sections of this Specification.

1.2 SUMMARY

- A. This section includes:
 - 1. Sealants

1.3 REFERENCES/ACRONYMS

- A. The following referenced material shall apply to this specification and have the same force and effect as if printed in full herein:

- 1. ASTM = American Society for Testing and Materials (latest edition)
- 2. FS = Federal Specification

ASTM C1193	Standard Guide for Use of Joint Sealants
ASTM C920	Specifications for Elastomeric Joint Sealants
FS-TT-S-00230	Test Methods for Caulking

1.4 SUBMITTALS

- A. Make submissions in accordance with 'SCHEDULE OF MATERIAL SUBMITTALS', attached at end of the Specifications.
- B. No deviations, substitutions or changes of materials, to be incorporated into this project, shall be made after approval by the Department, except for written direction by and the approval of the manufacturer of a specific item and re-approval by the Department.
- C. The Department retains the right to require additional items not specifically denoted to be submitted for approval and/or additional clarification.

1.5 QUALITY ASSURANCE

- A. All materials under this Section shall be factory certified, first run material, seconds will not be permitted.
- B. Obtain all caulking material from single manufacturer.
- C. Sealants shall be applied by an experienced installer who specializes and are regularly engaged in the application of caulking joints of the type indicated for this Project.
- D. Materials shall be compatible in every way, with all other components. Substitutions will not be permitted after approved descriptive data and/or shop drawings have been acted upon and distributed.
- E. Also see Removal of Non-Compliant Materials, this PART.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original unopened packaging and/or containers labeled with the manufacturer's name, brand name, model number and installation instructions.
- B. Store and protect materials from damage and weather.
 - 1. Verify storage area with Using Agency so as not to interfere with daily or monthly operations.
 - 2. The Department shall accept absolutely no liability for any materials stored on site. It shall be the complete responsibility of the Contractor to provide whatever means necessary to properly secure any and all stored materials.
- C. Any materials damaged either during shipping or storage at the site shall be replaced at Contractor's expense.

1.7 TESTING

- A. The Department retains the right to test any and/or all of the materials required under this Section.
 - 1. Cost for such testing shall be paid for by the Department unless such testing confirms that any such material is not in compliance with the requirements of this Specification in which case the Contractor shall reimburse the Department such cost and shall pay for any retesting costs.
- B. Also see Removal of Non-Compliant Materials, this PART.

1.8 REMOVAL OF NON-COMPLIANT MATERIALS

- A. Any material found not to be in compliance with the requirements of this Section, through testing and/or other means, whether installed individually and/or as a part of a system or not, shall be immediately removed from the job site and replaced with compliant materials at no additional cost to the Contract.

PART 2 – PRODUCTS

DISCLAIMER:

Items specified by specific name of a manufacturer are only to establish a standard for operation, quality, characteristics, type, performance, etc. Equal products by other manufacturers will be considered for inclusion into this project provided they are submitted with sufficient supporting data/information which to base a decision for approval. In certain cases, which will be so noted, specified items **must** be used in order to be compatible with existing systems.

2.1 GENERAL CAULKING

- A. Single component polyurethane, unless other product is recommended by the metal manufacturer.
- B. Characteristics:
 - 1. Shore “A” hardness = 25 ± 5
 - 2. Movement Capability = $35 \% \pm 5$
 - 3. Low VOC
- C. Color shall be clear.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Immediately prior to application of caulking prepare and thoroughly clean the area of the substrate that is to receive joint sealants. Remove all existing sealant to areas to receive new sealant.
 - 1. Remove all foreign matter from substrates that could interfere with sealant adhesion, to include but not be limited to, dust, dirt, mud, paints, oil, grease, water, waterproofing.

3.2 PRECAUTION

- A. Do not proceed with application of sealant when the substrate surface and/or the ambient air temperatures is outside the manufactures limits and/or below 40° F.

- B. Do not proceed with application of sealant when the substrate is wet or covered with frost.

3.3 APPLICATION

- A. Examine joints to receive caulking for compliance with installation tolerances and other joint conditions that affect the caulking performance.
 - 1. Do not proceed with application of caulking until all unsatisfactory conditions have been corrected.
- C. Apply caulking in complete compliance with the manufacturers written installation instructions and ASTM C1193.

3.4 CAULKING SCHEDULE

- A. Caulk as recommended by manufacturer.
- B. All other areas with dissimilar material joints, to provide a watertight seal.

3.5 CLEANING

- A. Clean off excess caulking and any caulking smears adjacent to joints, as the work progresses and before onset of the curing process, by methods and with cleaning agents/materials that are approved by the sealant manufacturer.

3.6 PROTECTION

- A. Protect the caulking, as required, during and after curing period from any contact with contaminating substances, and damage resulting from subsequent construction operations.
- B. Any caulking damaged prior to final acceptance shall be replaced by the Contractor, at no additional cost to the Contract.

END OF SECTION