

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable Drawings and amendments are part of and are to be read in conjunction with this Section

## PART 1 - GENERAL

### 1.1 SUMMARY OF SECTION

- .1 Summarized but not restricted to:
  - .1 Joint sealers within the new construction area
  - .2 For re-roofing project to Section 07 52 00 Modified Bituminous Membrane Roofing.

### 1.2 REFERENCES

- .1 American Society for Testing and materials International (ASTM):
  - .1 ASTM C920-14a, Standard Specification for Elastomeric Joint Sealants

### 1.3 ENVIRONMENTAL AND SAFETY REQUIREMENTS

- .1 Conform to manufacturer's recommended temperatures, relative humidity, and substrate moisture content for application and curing of sealants including special conditions governing use.

### 1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Waste Management and Disposal and the Waste Reduction Workplan.

## PART 2 - PRODUCTS

### 2.1 SEALANT TYPE

- .1 Urethane Sealant (Type 1):
  - .1 Multi component, chemically cured polyurethane, gun grade.
  - .2 Classification:
    - .1 ASTM C-920, Type M, Grade NS, Class 50, use T, NT, M, A and O.
  - .3 Colour: To be selected by Departmental Representative from manufacturer's standard colours.
- .2 Silicone Sealant (Type 2):
  - .1 Low modulus, high performance, one part moisture curing sealant.
  - .2 Classification:
    - .1 ASTM C920, Type S, Grade NS, Class 100/50 use NT, M, G, A, and O.

- .3 Colour: To be selected by Departmental Representative from manufacturer's standard colours.

## 2.2 SEALANT SELECTION

- .1 Perimeters of exterior openings where frames meet exterior facade of building: Sealant Type-1.
- .2 Control and expansion joints in exterior surfaces of unit masonry walls: Sealant Type-1.
- .3 Seal interior perimeters of exterior openings as detailed on drawings: Sealant Type-1.

## 2.3 JOINT CLEANER

- .1 Non-corrosive and non-staining type, compatible with joint forming materials and sealant recommended by sealant manufacturer.
- .2 Primer: as recommended by manufacturer.

# PART 3 - EXECUTION

## 3.1 PREPARATION OF JOINT SURFACES

- .1 Clean bonding joint surfaces of harmful matter substances including dust, rust, oil grease, and other matter which may impair work.
- .2 Do not apply sealants to joint surfaces treated with sealer, curing compound, water repellent, or other coatings unless tests have been performed to ensure compatibility of materials. Remove coatings as required.

## 3.2 BACKUP MATERIAL

- .1 Install joint filler to achieve correct joint depth and shape, with approximately 30 % compression.

## 3.3 APPLICATION

- .1 Sealant.
  - .1 Apply sealant in accordance with manufacturer's written instructions.
  - .2 Mask edges of joint where irregular surface or sensitive joint border exists to provide neat joint.
  - .3 Apply sealant in continuous beads.
  - .4 Use sufficient pressure to fill voids and joints solid.
  - .5 Form surface of sealant with full bead, smooth, free from ridges, wrinkles, sags, air pockets, embedded impurities.

- .6 Tool exposed surfaces before skinning begins to give slightly concave shape.
  - .7 Remove excess compound promptly as work progresses and upon completion.
  - .8 Use sealants in accordance with sealant manufacturer instructions.
- .2 Cleanup.
- .1 Clean adjacent surfaces immediately and leave work neat and clean.

END OF SECTION