

**PART 1 - GENERAL**

**1.1 SUMMARY**

- .1 This section specifies caulking and sealants not specified in other Sections.
- .2 This section specifies removal of old/existing caulking.

**1.2 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver and store materials in original wrappings and containers with manufacturer's seals and labels intact. Protect from freezing, moisture and water.

**1.3 ENVIRONMENTAL & SAFETY REQUIREMENTS**

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets acceptable to Labour Canada.
- .2 Conform to manufacturer's recommended temperatures, relative humidity, and substrate moisture content for application and curing of sealants including special conditions governing use.

**PART 2 – PRODUCTS**

**2.1 SEALANT MATERIALS**

- .1 Sealants acceptable for use on this project: Mameco-Vulcem 116, CPD PS 1901.
- .2 Between wood building components and steel: sealant to CAN/CGSB-19.13.

**2.2 BACK-UP MATERIALS**

- .1 Polyethylene, Urethane, Neoprene or Vinyl Foam:
  - 1. Extruded closed cell foam backer rod.
  - 2. Size: oversize 30 to 50%.
- .2 Neoprene or Butyl Rubber:
  - 1. Round solid rod, Shore A hardness 70.
- .3 High Density Foam:
  - 1. Extruded closed cell polyvinylchloride (PVC) or neoprene foam backer, size recommended by manufacturer.
- .4 Bond Breaker Tape:
  - 1. Polyethylene bond breaker tape which will not bond to sealant.

**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 Remove **ALL** existing caulking from wood and/or steel interfaces and clean to bare base material.
- .2 Examine joint sizes and conditions to establish correct depth to width relationship for installation of back-up materials and sealants.
- .3 Clean bonding joint surfaces of harmful matter and substances including dust, rust, oil, grease, old caulking and other matter which may impair bond and performance.
- .4 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.
- .5 Ensure joint surfaces are dry and frost free.
- .6 Prepare surfaces in accordance with manufacturer's directions.

**3.2 PRIMING**

- .1 Where necessary to prevent staining, mask adjacent surfaces prior to priming and caulking.
- .2 Prime sides of joints in accordance with sealant manufacture's instructions immediately prior to caulking.

**3.3 BACK-UP MATERIAL**

- .1 Apply bond breaker tape where required to manufacturer's instructions.
- .2 Install joint filler to achieve correct joint depth and shape.

**3.4 APPLICATION**

- .1 Sealant:
  1. Apply sealant in accordance with manufacturer's instructions.
  2. Seal all joints between building and window frame members and other non-operating components with sealant to provide weathertight seal at outside and air/vapour seal at inside.

**SEALANTS**

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3. Apply sealant in continuous beads.
  4. Apply sealant using gun with proper size nozzle.
  5. Use sufficient pressure to fill voids and joints solid.
  6. Apply sealant to achieve correct depth and shape.
  7. Form surface of sealant with full bead, smooth, free from ridges, wrinkles, sags, air pockets, embedded impurities.
  8. Tool exposed surfaces to give slightly concave shape to provide "smooth" surface.
  9. Remove excess compound promptly as Work progresses and upon completion.
- .2 Curing:
1. Cure sealants in accordance with sealant manufacturer's instructions.
  2. Do not cover up sealants until proper curing has taken place.
- .3 Clean up:
1. Clean adjacent surfaces immediately and leave Work neat and clean.
  2. Remove excess and droppings, using recommended cleaners as Work progresses.
  3. Remove masking tape after initial set of sealant.

**END OF SECTION**