

**SECTION 07900  
JOINT SEALANTS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- .1 Provide joint sealants required by Vancouver Building Bylaw, BC Building Code, and as directed by the Consultant.

**1.2 REFERENCES**

- .1 ASTM C920-02, Standard Specification for Elastomeric Joint Sealants.
- .2 CAN/CGSB 19.13-M87, Sealing Compound, One-Component, Elastomeric, Chemical Curing.
- .3 CAN/CGSB 19.24-M90, Multi-Component, Chemical-Curing Sealing Compound.

**PART 2 - PRODUCTS**

**2.1 GENERAL**

- .1 Colour: As selected by the Consultant from manufacturer's complete range of available colours.

**2.2 POLYETHYLENE FOAM BACKUP ROD**

- .1 Closed cell polyethylene urethane, neoprene or vinyl foam backer rod as recommended by sealant manufacturer.
  - .1 Size: 30% oversize or as recommended by the manufacturer.
  - .2 Shore: Shore A hardness of 20.
  - .3 Tensile Strength: 138kPa. to 207kPa. (20 psi to 30 psi).

**2.3 EXTERIOR SEALANTS**

- .1 Conform to CAN/CGSB 19.13-M87; Type II Class A, for single component polyurethane sealant.  
Acceptable materials: Sonneborn Sonolastic NP 1

Sika Sikaflex 1a

Tremco Dymonic FC

- .2 Colour: As selected by the Consultant from manufacturer's complete range of available colours.

.3 Locations:

- .1 Exterior locations at joints between dissimilar construction.
- .2 Penetrations through exterior walls and roofs.
- .3 Metal flashing.
- .4 Wood, vinyl and fibre cement siding.
- .5 Metal door frames.
- .6 Windows.

**2.4 INTERIOR SEALANTS**

.1 Non-Traffic Locations:

- .1 Conform to CAN/CGSB 19.13-M87; classification MCG-2-25B - N for 1 part polyurethane sealant.
- .2 Locations: between interior pressed steel frames and concrete and masonry; sealing stud wall plates to surrounding construction in exterior walls; sealing penetrations through interior layer of gypsum wallboard where the Airtight Drywall Approach is used to control air leakage.
- .3 Between window frame and rough framing.

.2 Moist Locations:

- .1 Silicone Sealant: Conforming to ASTM C920-02, Type S, Grade NS, Glass 25, use NT, G & A.
    - .1 One part mildew and mold-resistant silicone sealant.
    - .2 Colour: White against white fixtures, clear or opaque in other locations as confirmed by Consultant.
    - .3 Locations:
      - .1 Junction of washroom fixtures to floors.
      - .2 Junction of vanities to walls and floors.
      - .3 Behind plumbing escutcheons in tubs and showers.
      - .4 Joints between tub enclosures and walls.
      - .5 Between finished resilient flooring and door frames.
      - .6 Resilient floor/wall junction prior to installation of the rubber base.
      - .7 Resilient floor/kitchen cabinet junctions.
  - .3 Acoustic Sealant:
    - .1 Non-hardening sealant for use in sealing sound-rated gypsum wallboard partitions and end and lap joints in polyethylene vapour barriers, conforming to CAN/CGSB 19.21 and acoustically tested in drywall partition system.
    - .2 Locations:
      - .1 Stud plates top and bottom.
      - .2 Junction of vertical studs with dissimilar materials.
      - .3 Around penetrations in walls.
      - .4 Lap and end joints in vapour barriers.
      - .5 As required by rated assembly specifications.
- 2.5 WORKMANSHIP**
- .1 Examine joint sizes and conditions to establish correct depth to width relationship for installation of back-up material and sealants. Prepare and prime surfaces in accordance with the manufacturer's directions. Use joint back-up material to control the depth of joint to the sealant manufacturer's recommended thickness.
  - .2 Apply sealant in accordance with the manufacturer's directions with sufficient pressure to properly fill all voids and seal the joint. Apply compounds in continuous beads, without open joints, voids, air pockets or embedded impurities.
  - .3 The surface of all caulking must be smooth, free from ridges, wrinkles, sags and air pockets. Tool exposed surfaces to give a slightly concave shape and ensure full contact with inner face of joint.
  - .4 Remove excess compound promptly as work progresses and upon completion using cleaners recommended by the manufacturer.

END OF SECTION