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**Malady Head Campground Washroom Buildings Recapitalization**  
**Terra Nova National Park, NL**  
**Proj. No.: R.079276.001**

Issued August 15, 2016

Section 07 90 00 – Joint Sealing

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PART 1 - GENERAL

**1.1 Related Work**

- .1 Section 06 10 00 - Rough Carpentry.
- .2 Section 06 20 00 - Finish Carpentry.
- .3 Section 09 30 13 - Ceramic Tiling.

**1.2 References**

- .1 CAN/CGSB-19.13-M87 Sealing Compound, One-component, Elastomeric, Chemical Curing.
- .2 ASTM C 920-08 - Specification For Elastomeric Joint Sealants.

**1.3 Samples**

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

**1.4 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, water and contact with ground or floor.

**1.5 Environmental and 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. Sealant and substrate materials to be minimum 5°C.
- .3 Should it become necessary to apply sealants below 5°C, consult sealant manufacturer and follow their recommendations.

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## 1.6 Warranty

- .1 For the Work of this Section 07 90 00 - Joint Sealing, the 12 months warranty period prescribed in subsection GC 3.13 of the General Conditions is extended to 36 months.

## PART 2 - PRODUCTS

### 2.1 Sealant Materials

- .1 Sealants for interior joints: Epoxidized Polyurethane joint sealant conforming to CAN/CGSB-19.24.
  - .1 Acceptable materials:
    - .1 "Dymeric" as manufactured by Tremco (Canada) Ltd.
    - .2 "Sikaflex 2C NS/SL" as manufactured by Sika Construction.
    - .3 "NP 2" as manufactured by Sonneborn.
    - .4 Alternative Materials: Approved by addendum in accordance with approval of Alternate Materials clause in the Special Instructions to Tender's Form.
  - .2 Sealant to be used in floor joints: traffic grade, chemically curing polyurethane sealant.
    - .1 Acceptable materials:
      - .1 "THC-900" as manufactured by Tremco.
      - .2 "Loadflex" as manufactured by Sika Construction.
      - .3 Alternative Materials: Approved by addendum in accordance with approval of Alternate Materials clause in the Special Instructions to Tender's Form.
  - .3 Colour of sealant: selected by the Departmental Representative.

### 2.2 Back-Up Materials

- .1 Preformed Compressible and Non-Compressible back-up materials.
  - .1 Polyethylene, Urethane, Neoprene or Vinyl Foam.
    - .1 Extruded closed cell foam backer rod, compatible with primers and sealants.
    - .2 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 polyvinyl chloride (PVC), extruded polyethylene, closed cell, Shore A hardness 20, tensile strength 140 to 200 kPa, extruded polyolefin foam, 32 kg/m<sup>3</sup> density, or neoprene backer, size as recommended by manufacturer.
  - .4 Bond Breaker Tape.
    - .1 Polyethylene bond breaker tape which will not bond to sealant.
  - .5 Vent tubing:
    - .1 6 mm inside diameter extruded polyvinyl chloride tubing.

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### **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 sealant manufacturer.

## **PART 3 - EXECUTION**

### **3.1 Protection**

- .1 Protect installed work of other trades from staining or contamination.

### **3.2 Preparation of Joint Surfaces**

- .1 Examine joint sizes and conditions to establish correct depth to width relationship for installation of backup materials and sealants.
- .2 Clean bonding joint surfaces of harmful substances including dust, rust, oil, grease, and other matter which will impair work.
- .3 Remove dust, paint, loose mortar and other foreign matter. Dry joint surfaces.
- .4 Remove rust, mill scale and coatings from ferrous metals by wire brush, grinding or sandblasting.
- .5 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.
- .6 Ensure joint surfaces are dry and frost free.
- .7 Prepare surfaces in accordance with manufacturer's directions.

### **3.3 Priming**

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

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### 3.4 Backup Material

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

### 3.5 Mixing

- .1 Mix materials in strict accordance with sealant manufacturer's instructions.

### 3.6 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 Apply sealant using gun with proper size nozzle.
  - .5 Use sufficient pressure to fill voids and joints solid.
  - .6 Form surface of sealant with full bead, smooth, free from ridges, wrinkles, sags, air pockets, embedded impurities. Superficial pointing with skin bead is not acceptable.
  - .7 Tool exposed surfaces to give slightly concave shape.
  - .8 Remove excess compound promptly as work progresses and upon completion.
- .2 All joints at fixtures, mechanical fixtures, electrical fixtures, window frames, and door frames to be caulked with sealant.
- .3 Apply sealant to joints around plumbing fixtures and adjacent material.
- .4 Curing.
  - .1 Cure sealants in accordance with sealant manufacturer's instructions.
  - .2 Do not cover up sealants until proper curing has taken place.
- .5 Cleanup.
  - .1 Clean adjacent surfaces immediately and leave work neat and clean.
  - .2 Remove excess sealant and droppings, using recommended cleaners as work progresses.
  - .3 Remove masking tape after initial set of sealant.