
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/m³ 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.