
PART 1 - GENERAL

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| <u>1.1 Related Sections</u> | .1 | Section 03 30 10 Concrete Repair and Patching |
| <u>1.2 References</u> | .1 | Canadian General Standards Board (CGSB)
.1 CAN/CGSB-19.24-M90 Sealing Compound,
Multi-component, Chemical Curing. |
| <u>1.3 Delivery,
Storage and Handling</u> | .1 | Deliver and store materials in original wrappings
and containers with manufacturer's seals and labels,
intact. Protect from freezing, moisture and water. |
| <u>1.4 Environmental
and Safety
Requirements</u> | .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

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| <u>2.1 Sealant Material</u> | .1 | Sealants: to CAN/CGSM-19.13, one part high
performance polyurethane sealant. Acceptable
Products:
.1 Mapeflex P1 SL by MAPEI.
.2 MasterSeal NP 1 by BASF (Master Builders
Solutions).
.3 Vulkem 116 by Tremco.
.4 Alternate materials: Approved by addendum in
accordance with Instructions to Tenderer's. |
| | .2 | Color of sealants: to match surface finish in which
they occur and as approved by Departmental
Representative. |
| | .3 | Preformed Compressible and Non-Compressible back-up
materials. (to be as recommended by sealant
manufacturer)
.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. |
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- .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.

2.2 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 Preparation of Joint Surfaces

- .1 Examine conditions to establish correct method for installation of joint and sealants.
- .2 Clean bonding joint surfaces of old sealants, backup materials, wood forms, and harmful substances including dust, rust, oil grease, and other matter which may impair work.
- .3 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.
- .4 Ensure joint surfaces are dry and frost free.

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 manufacturer's instructions immediately prior to caulking.

3.3 Backup Material

- .1 Apply bond breaker tape where required to manufacturer's instructions.

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- .2 Install joint filler, backer rod, to achieve correct joint depth and shape.
- 3.4 Application
- .1 Sealant.
- .1 Apply sealant in accordance with manufacturer's instructions.
- .2 Apply sealant in continuous beads.
- .3 Apply sealant using gun with proper size nozzle.
- .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 to give slightly concave shape.
- .7 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 Cleanup.
- .1 Clean adjacent surfaces immediately and leave work neat and clean.
- .2 Remove excess and droppings.

END OF SECTION
