
PART 1 - GENERAL

- 1.1 Related Sections .1 Section 03 30 10 Concrete Repair and Patching
- 1.2 References .1 Canadian General Standards Board (CGSB)
.1 CAN/CGSB-19.24-M90 Sealing Compound,
Multi-component, Chemical Curing.
- 1.3 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.
- 1.4 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.

PART 2 - PRODUCTS

- 2.1 Sealant Material .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.