

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .1 | Canadian General Standards Board (CGSB)
.1 CAN/CGSB-19.13-M87, Sealing Compound,
One-component, Elastomeric, Chemical Curing. |
| <u>1.2 SUBMITTALS</u> | .1 | Submit technical product data in accordance with
Section 01 33 00 - Submittal Procedures. |
| <u>1.3 DELIVERY,
STORAGE, AND
HANDLING</u> | .1 | Deliver, handle, store and protect materials in
accordance with Section 01 61 00 - Common Product
Requirements. |
| | .2 | 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. |
| <u>1.4 PROJECT
CONDITIONS</u> | .1 | Environmental Limitations: |
| | .1 | Do not proceed with installation of joint
sealants under following conditions:
.1 When ambient and substrate temperature
conditions are outside limits permitted by joint
sealant manufacturer.
.2 When joint substrates are wet. |
| | .2 | Joint-Width Conditions:
.1 Do not proceed with installation of joint
sealants where joint widths are less than those allowed
by joint sealant manufacturer for applications
indicated. |
| | .3 | Joint-Substrate Conditions:
.1 Do not proceed with installation of joint
sealants until contaminants capable of interfering
with adhesion are removed from joint substrates. |

1.5 ENVIRONMENTAL 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 (MSDS) 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.
- .3 Ventilate area of work as directed by Departmental Representative by use of approved portable supply and exhaust fans.

PART 2 - PRODUCTS

2.1 SEALANT MATERIALS

- .1 Sealant Type 1 - for use on interior vertical surfaces: (Non Sag), One-part pick-proof epoxy adhesive sealant, chemical curing with the following properties:
 - .1 To: ASTM C679, ASTM D412, ASTM D624.
 - .2 Clear colour, waterproof, paintable.
 - .3 Specific Gravity: 0.92035.
 - .4 Flash Point: 20°F.
 - .5 Functional Cure: 168 Hours.
 - .6 Application Time: 25 minutes.
 - .7 Bond strength: 2000PSI.
 - .8 Movement range: minimum 50%
 - .9 Temperature range: low minimum -20°F to 170°F
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 - .10 Acceptable product:
 - .1 'Surebond' SB-190.
- .2 Preformed Compressible and Non-Compressible back-up materials.
 - .1 Polyethylene, Urethane, Neoprene or Vinyl Foam.
 - .1 Extruded closed cell foam backer rod.
 - .2 Size: oversize 30 to 50 %.
- .3 Bond Breaker Tape.
 - .1 Polyethylene bond breaker tape which will not

bond to sealant.

- .4 Joint Cleaner: non-corrosive and non-staining type, compatible with joint forming materials and sealant, type recommended by sealant manufacturer.
- .5 Primer: as recommended by manufacturer

PART 3 - EXECUTION

3.1 PROTECTION

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

3.2 SURFACE PREPARATION

- .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 matter 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.
- .5 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.

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, with approximately 30% compression.

3.5 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.
 - .7 Tool exposed surfaces before skinning begins to give slightly concave shape.
 - .8 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, using recommended cleaners as work progresses.
 - .3 Remove masking tape after initial set of sealant.