

PART 1 - GENERAL

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|-------------------------------------|----|---|
| <u>1.1 WORK INCLUDED</u>            | .1 | This section is to provide a description of caulking materials and methods which shall be the responsibility of the respective trade sections requiring caulking.   |
| <u>1.2 RELATED WORK</u>             | .1 | Section 09 21 99 - PARTITIONS FOR MINOR WORKS   |
| <u>1.3 ENVIRONMENTAL CONDITIONS</u> | .1 | Sealant and substrate materials to be minimum 5 degrees celsius.  |
|                                     | .2 | Should it become necessary to apply sealants below 5 degrees celsius, consult sealant manufacturer and follow their recommendations.  |
|                                     | .3 | Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) Regulations regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets acceptable to Labour Canada. |
|                                     | .4 | Conform to manufacturer's recommended temperatures, relative humidity, and substrate moisture content for application and curing of sealants including special conditions governing use.  |
|                                     | .5 | Ventilate area of work as directed by Architect by use of approved portable supply and exhaust fans.  |

2 Products

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|------------------------------|----|---|
| <u>2.1 SEALANT MATERIALS</u> | .1 | Sealants acceptable for use on this project must be listed on CGSB Qualified Products List issued by CGSB Qualification Board for Joint Sealants. Where sealants are qualified with primers use only these primers. |
| <u>2.2 PRIMERS</u>           | .1 | Type recommended by sealant manufacturer.   |
| <u>2.3 JOINT FILLERS</u>     | .1 | General: compatible with primers and sealants, outsized 30 to 50%.  |
|                              | .2 | Polyethylene, urethane, neoprene or vinyl; extruded closed cell foam, Shore A hardness 20, tensile strength 140 to 200 kPa.   |
|                              | .3 | Bond breaker: pressure sensitive plastic tape,  |

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which will not bond to sealants.

.4 Sealants:

- .1 Type 1: one part silicone sealant, mildew resistant; for use in wet areas, between plumbing fixtures and adjacent surfaces, between vanities and walls. Colour to be selected by Architect.
  - .1 Acceptable products: SCS 1700 sanitary sealant by G.E.; Tremco Limited Proglaxe (anti-mildew) silicone construction sealant.
- .2 Type 2: acrylic latex caulking; for use in non-dynamic joints to be painted, such as joint between (dry) counter tops and painted walls, door frame/wall joint.
  - .1 Acceptable products: Tremco acrylic latex caulk; Dow Corning 8644 Paintable.
- .3 Type 3: urethane, two part, for dynamic and non dynamic joints greater than 1/8", including joints between door frames and flooring. Colours to be selected by Architect.
  - .1 Acceptable products: Tremco Dymeric 240 or approved alternate.
- .4 Type 4: Sealant, pick proof for application to top of cove base cap: Sikadur Anchorfix-2 or Pecora DynaPoxy EP-1200 for top of cap strip.
  - .1 Acceptable products: Sikadur Anchorfix-2 or Pecora DynaPoxy EP-1200.
- .5 Joint cleaner: xylol, methylethyleketon or non-corrosive type recommended by sealant manufacturer and compatible with joint forming materials.

3 Execution

3.1 INSTALLATION

- .1 Remove dust, paint, loose mortar and other foreign matter. Dry joint surfaces.
- .2 Remove rust, mill scale and coatings from ferrous metals by wire brush, grinding or sandblasting.
- .3 Remove oil, grease and other coatings from non-ferrous metals with joint cleaner.
- .4 Prepare concrete, masonry, glazed and vitreous

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surfaces to sealant manufacturer's instructions.

- .5 Examine joint sizes and correct to achieve depth ration  $\frac{1}{2}$  of joint width with minimum width and depth of 1/4", maximum width 1".
- .6 Install joint filler to achieve correct joint depth.
- .7 Where necessary to prevent staining, mask adjacent surfaces prior to priming and caulking.
- .8 Apply bond breaker tape where required to manufacturer's instructions.
- .9 Prime sides of joints in accordance with sealant manufacturer's instructions immediately prior to caulking.

### 3.2 APPLICATION

- .1 Apply sealants primers to manufacturer's instructions. Apply sealant using funnel with proper size nozzle. Use sufficient pressure to fill voids and joints solid. Superficial pointing with skin bead is not acceptable.
- .2 Form surface of sealant with full bead, smooth, free from ridges, wrinkles, sags, air pockets, embedded impurities. Neatly tool surface to a slight concave joint.
- .3 Apply sealant to joints between window or door frames to adjacent building components, around perimeter of every external opening, to control joints in masonry walls between wall mounted plumbing fixtures and walls, and where indicated.
- .4 Clean adjacent surfaces immediately and leave work neat and clean. Remove excess sealant and droppings using recommended cleaners as work progresses. Remove masking after tooling of joints.

**END OF SECTION**