
PART 1 - GENERAL

1.1 RELATED WORK

- .1 Doors & Frames: Sections 08 11 14, 08 14 10

1.2 ENVIRONMENTAL CONDITIONS

- .1 Sealant and substrate materials to be minimum 5°C.
- .2 Should it become necessary to apply sealants below 5°C, consult sealant manufacturer and follow their recommendations.

1.3 WARRANTY

- .1 Contractor hereby warrants that caulking Work will not leak, crack, crumble, melt, shrink, run, lose adhesion or stain adjacent surfaces for a total of five (5) years from the date of Substantial Completion of the Contract.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Primers: type recommended by sealant manufacturer.
- .2 Joint fillers:
 - .1 General: compatible with primers and sealant, 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 Neoprene or butyl rubber: round solid rod, Shore 'A' hardness 70.
 - .4 Polyvinyl chloride or neoprene: extruded tubing with ¼" minimum thick walls.
- .3 Bond breaker: pressure sensitive plastic tape, which will not bond to sealants.
- .4 Sealants:
 - .1 Type 1 acrylic solvent release, one part sealant to CGSB-19-5M.
 - .2 Type 2 silicone sealant, one part to CGSB CAN2-19-13M.
 - .3 Type 3 two (2) part polyepoxide urethane sealant: Type 4 Sealant
 - .4 Type 4 Sealant High performance silicone to CAN/CGSB-19-13-M87

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- .5 Type 5 purpose made elastomeric to ASTM D2240 Shore A
 - .5 Colour of sealants: as selected from standard sealant colour charts.
 - .6 Joint cleaner: xylol, methylethyleketon or non-corrosive type recommended by sealant manufacturer and compatible with joint forming materials.
 - .7 Primers: as recommended by the sealant manufacturer.

PART 3 - EXECUTION

3.1 PREPARATION

- .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 surfaces to sealant manufacturer's instructions.
- .5 Examine joint sizes and correct to achieve depth ratio $\frac{1}{2}$ of joint width with minimum width and depth of $\frac{1}{4}$ ", 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 sealant primers, joint fillers, bond breakers to manufacturer's instructions. Apply sealant using gun 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, concrete slabs, and where indicated.
- .4 Caulk joints in site painted materials after adjacent surfaces have been painted.
- .5 Do not allow sealants to cover or spot surfaces outside of joints. Use masking tape protection to prevent coating of adjacent surfaces.
- .6 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.
- .7 Do not paint sealants.

3.3 SCHEDULE

- .1 Type 1 -
 - .1 All acoustic separation locations.
- .2 Type 2 -
 - .1 Joints between urinals and walls and between water closets and floor.
- .3 Type 3 -
 - .1 Use at all locations except where another is specified.
- .4 Type 5 -
 - .1 Ceramic tile floor control joints.
- .5 Colour - unless noted otherwise, colour is to match adjacent surface, to approval of the Consultant.

END OF SECTION 07 92 10