

PART I – GENERAL

WORK SPECIFIED HEREIN

All labor, materials, equipment and services necessary to furnish all sealants, rodent control mesh, and related materials and perform all work as indicated or specified.

See Section 07952 for fire retardant sealants.

SUBSTITUTIONS

In accordance with Section 01600.

SUBMITTALS

Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.

Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.

WARRANTY

The manufacturer and applicator shall warrant all materials and their installation for a period of five (5) full years.

Warranty shall be issued jointly by the manufacturer and applicators from the date of Substantial Completion. The manufacturer and/or applicator shall replace all defective materials at no cost to the Owner for this five (5) year warranty period.

PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver sealant to the job site in sealed containers, each bearing manufacturer's name and product designation.

JOB CONDITIONS

Do not apply sealants or expanding foam in temperatures or to material below 40° F.

Caulk joints before final coat of paint or before application of any clear or stain waterproofing compounds.

Do not apply sealants or expanding foam to surfaces that are wet.

PART II – PRODUCTS

MATERIALS – JOINT SEALANTS

- All sealants used on exterior of project, except those in contact with E.I.F.S., are to be 2-component polyurethane base, including inside surface of exterior joints.
- All sealants in contact with E.I.F.S. to be silicone or as approved by E.I.F.S. manufacturer and color shall match adjacent E.I.F.S. surface.

- Floor Joint Filler:
Sealant shall be 2-component base of liquid (or paste equal) polyurethane polymer. Sealant shall be in colors selected. Sealants shall conform to the following:

ASTM

Traffic Joints	C-920, Type M, Grade P, Class 25, Use T (Fast Drying)
Horizontal Joints	Same as Traffic Joints
Other Joints	C-920, Type M, Grade NM, Class 25, Use NT, M, A, O

- All sealant used on interior of project are to be acrylic latex base, unless noted otherwise.
Sealant shall be acrylic latex base conforming to CAN/CGSB-19.17M; and ASTM C-834. Colors shall be as selected.

All sealants in restrooms mould and mildew resistant silicone, conforming to ASTM C920, Type S, grade NS, Class 25, use NT, G, and A. Color shall be as selected.

All sealants in wet areas, such as bathing, drying, dog runs, etc. shall be polyurethane base conforming to CAN/CGSB-19.13M Type 2, Class MCG-2-25-A-N; and ASTM C920, Type S, grade GNS, Class 25, use NT, M, and A.

Non-elastomeric Sealants:

- At roof flashings and scuppers: Per Roofing Manufacturer's Recommendations
- Primer: Where required, shall be used as recommended, in wiring, by the manufacturer. The primer shall have been tested for non-staining characteristics and durability on samples of actual surfaces to be sealed.
- Back-up materials and preformed joint fillers shall be non-staining, compatible with sealant and primer, and of a resilient nature, such as closed cell polyethylene rod, closed cell urethane or Neoprene rod, or elastomeric tubing or rod (Neoprene, butyl, or EPDM). Materials impregnated with oil, bitumen or similar materials shall not be used. Size and shape shall be as indicated by joint details on drawings and shall be as recommended by sealant manufacturer in writing. Sealant shall not adhere to back-up material.
- Bond Breakers: Where required, shall be polyethylene tape (or approved alternate) as recommended by manufacturer of sealant, in writing.
- Solvents, cleaning agents and other accessory materials shall be as recommended by sealant manufacturer in writing.

MATERIALS – RODENT CONTROL MESH

- Rodent control mesh shall be a woven copper mesh secured in place (both sides) by an expanding foam.

- Rodent control mesh shall be “Stuf-Fit”.
- Expanding foam shall be “off white” in color.

PART III – EXECUTION

WORKMANSHIP

General:

- Qualified applicators (5 year minimum successful experience in application of joint sealers specified) shall apply sealants in conformance with manufacturer's written directions.
- Examine all surfaces and report all conditions not acceptable.
- Apply sealant under pressure with hand or power actuated gun or other appropriate means. Gun shall have nozzle of proper size and provide sufficient pressure to completely fill joints as designed. All joint surfaces shall be tooled to provide the contour as indicated.

Preparation:

- Thoroughly clean all joints, removing all foreign matter such as dust, oil, grease, water, surface dirt and frost. Sealant must be applied to the base surface. Previously applied paint or primer must be entirely removed.
- Porous materials such as concrete or masonry shall be cleaned where necessary by grinding, blast-cleaning, mechanical abrading, acid washing to combination of these methods to provide a clean, sound base surface for sealant adhesion.
- Laitance shall be removed by acid washing, grinding or mechanical abrading.
- Form oils shall be removed by blast-cleaning.
- Loose articles present or resulting from grinding, abrading or blast-cleaning shall be removed by blowing out joints with oil-free compressed air (or vacuuming) prior to application of primer or sealant.
- Non-porous surface, such as metal and glass, shall be cleaned either mechanically or chemically. Protective coatings on metallic surfaces shall be removed by a solvent that leaves no residue. Solvent shall be used with clean cloths or lintless paper towels. Do not allow solvent to air dry without wiping. Wipe dry with clean, dry cloth or lintless paper towels.
- Joint areas to be protected with masking tape or strippable films shall be cleaned before application of tape or film.
- All joints to receive sealant shall be as indicated on Shop or Project Drawings. Do not seal joints until they are in compliance with Drawings or meet with the approval of the Architect.
- For joints in concrete or masonry: depth of the sealant may be equal to the width in joints up to 6 mm (1/4") wide. For joints 13 mm to 25 mm (1/2" to 1") wide: depth shall be 13 mm (1/2"). For expansion and other joints 25 mm to 50 mm (1" to 2") wide: depth

shall not be greater than 1/2 the applied sealant width. For joints exceeding 50 mm (2") in width: depth shall be as directed by sealant manufacturer.

- For joints in metal, glass and other non-porous surfaces: sealant depth shall be a minimum of 1/2 the applied sealant width, and shall in no case exceed the applied sealant width.
- Joints to receive sealant, back-up material or pre-formed joint filler shall be cleaned out, raked to full width and depth as required.
- Joints shall be of sufficient width and depth to accommodate specified back-up material or preformed joint filler and sealant.

Application:

- Install back-up material or joint filler, of type and size specified, at proper depth to provide sealant dimensions as detailed. Back-up material shall be of suitable size and shape; and compressed 25-50% to fit joints as required. Sealant shall not be applied without back-up material and/or bond breaker strip. When using back-up tube, avoid lengthwise stretching. Tube or rod shall not be twisted or braided.
- Apply masking tape, where required, in continuous strips in alignment with joint edge.
- Prime surfaces, where required, with primer as recommended by sealant manufacturer.
- Follow sealant manufacturer's instructions regarding mixing (if required), surface preparation, priming, application life, and application procedure.
- Apply, tool and finish sealant as required. When tooling sealants, use tooling solution recommended by sealant manufacturer. Remove masking tape immediately after joints have been tooled.
- Clean adjacent surfaces of sealant as work progresses. Use solvent or cleaning agent as recommended by sealant manufacturer. All finished work shall be left in a neat, clean condition.

RODENT CONTROL MESH

General:

- Install Rodent Control Mesh in a workmanlike manner and at a rate as recommended by manufacturer.
- Prior to installation of expanding foam, insure all surfaces are clean and free of loose particles or oils.
- After foam is expanded and cured, cut flush with face of penetration opening.

PART IV - SCHEDULE

Provide caulking at the following locations. This schedule is not to be construed to be complete. Provide caulking at other areas to provide a watertight building.

- Control joints in masonry surfaces, interior and exterior (New and Existing).
- Control joints and expansion in concrete surfaces, interior and exterior.
- Perimeter of door frames, interior and exterior. (No caulking at pre-finished door frames)
- Perimeter of window frames, interior and exterior.
- Perimeter of louvers and grilles, interior and exterior. (No caulking at louvers in pre-finished doors)
- Perimeter of aluminum sections, interior and exterior.
- Top edge of all reglet/counterflashing assemblies.
- All piping, duct, conduits at wall penetrations.

Note: At interior partitions caulking is required at all joints between dissimilar materials.

SANITARY CAULKING

Caulk all joints, seams, cracks, etc., in the groomer area/ bath, mech., janitor and toilets. Typical joints to be caulked are as follows:

- Juncture of all wall panels with floor or base; juncture of door jambs (other than pre-finished frames) or jamb covers with walls; juncture of fixture with floor and wall; around plumbing fixtures; all transitions of dissimilar materials; all other similar locations.

Bottom of prefinished frames at floor tile: Color to be black.

RODENT CONTROL MESH

Provide Rodent Control Mesh in all wall and floor penetrations or openings or space around penetrations for pipes conduits, ducts, etc. and secure both sides with expanding foam.

END OF SECTION

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