

PART 1 - GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM C 208-95(2001), Specification for Cellulosic Fiber Insulating Board.
 - .2 ASTM C 591-01, Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation.
 - .3 ASTM C 612-04, Standard Specification for Mineral Fibre Block and Board Thermal Insulation.
 - .4 ASTM C 726-05, Standard Specification for Mineral Fiber Roof Insulation Board.
 - .5 ASTM C 728-05, Standard Specification for Perlite Thermal Insulation Board.
 - .6 ASTM C 1126-04, Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation.
 - .7 ASTM C 1289-05a, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 - .8 ASTM E 96/E 96M-05, Standard Test Methods for Water Vapour Transmission of Materials.
 - .2 Canadian Gas Association (CGA)
 - .1 CAN/CGA-B149.1-05, Natural Gas and Propane Installation Code Handbook.
 - .2 CAN/CGA-B149.2-05, Propane Storage and Handling Code.
 - .3 Canadian General Standards Board (CGSB)
 - .1 CGSB 71-GP-24M-77(R1983), Adhesive, Flexible, for Bonding Cellular polystyrene Insulation.
 - .4 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC-S604-M91, Standard for Type A Chimneys.
 - .2 CAN/ULC-S701-05, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Coverings.
 - .3 CAN/ULC-S702-97, Standard for Thermal Insulation, Mineral Fibre, for Buildings.
 - .4 CAN/ULC-S704-03, Standard for Thermal Insulation Polyurethane and Polyisocyanurate, Boards, Faced.
 - .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
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1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's insulation products and adhesives.
- .2 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.

1.3 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Convene pre-installation meeting one week prior to beginning work of this Section and on-site installations in accordance with Section 01 32 16.06 - Construction Progress Schedule - Critical Path Method (CPM) Section 01 32 16.07 - Construction Progress Schedules - Bar (GANTT) Chart.
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordinate with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.
- .4 Health and Safety Requirements: do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

PART 2 - PRODUCTS

2.1 INSULATION

- .1 Foundation and Masonry Walls Insulation Extruded polystyrene (XPS) Expanded polystyrene (EPS): to CAN/ULC-S701.
 - .1 Type: 4.
 - .2 Compressive strength: 40 psi.
 - .3 Thickness: as indicated.
 - .4 Size: appropriate for application
 - .5 Edges: square ship lapped vented.
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2.2 ADHESIVE

- .1 Adhesive (for polystyrene): to CGSB 71-GP-24.
 - .1 Type: 1 as recommended by Installation Manufacturer.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 WORKMANSHIP

- .1 Install insulation after building substrate materials are dry.
- .2 Install insulation to maintain continuity of thermal protection to building elements and spaces.
- .3 Fit insulation tight around electrical boxes, plumbing and heating pipes and ducts, around exterior doors and windows and other protrusions.
- .4 Keep insulation minimum 75 mm from heat emitting devices such as recessed light fixtures, and minimum 50 mm from sidewalls of CAN4-S604 type A chimneys and CAN/CGA-B149.1 and CAN/CGA-B149.2 type B and L vents.
- .5 Cut and trim insulation neatly to fit spaces. Butt joints tightly, offset vertical joints. Use only insulation boards free from chipped or broken edges. Use largest possible dimensions to reduce number of joints.
- .6 Offset both vertical and horizontal joints in multiple layer applications.
- .7 Do not enclose insulation until it has been inspected and approved by Departmental Representative.

3.3 EXAMINATION

- .1 Examine substrates and immediately inform Departmental Representative in writing of defects.
- .2 Prior to commencement of work ensure:
 - .1 Substrates are firm, straight, smooth, dry, free of snow, ice or frost, and clean of dust and debris.

3.4 RIGID INSULATION INSTALLATION

- .1 Apply adhesive to polystyrene insulation board substrate in accordance with manufacturer's recommendations.
- .2 Imbed insulation boards into vapour barrier type adhesive, applied as specified, prior to skinning of adhesive.
- .3 Leave insulation board joints unbonded over line of expansion and control joints. Bond a continuous 150 mm wide 0.15 mm modified bituminous membrane over expansion and control joints using compatible adhesive and primer before application of insulation.

3.5 PERIMETER FOUNDATION INSULATION

- .2 Exterior application: extend boards below finish grade as indicated to top of footing. Install on exterior face of perimeter foundation wall with adhesive.
- .3 Under slab application: extend boards from perimeter foundation wall as indicated. Lay boards on level compacted fill.

3.7 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

PART 1 - GENERAL

1.1 WORK INCLUDED

- .1 This section includes requirements for providing pre-finished insulated metal cladding as indicated, and as specified.

1.2 REFERENCES

- .1 ASTM, A446M-91, Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality.

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00.
- .2 Submit duplicate 12" x 12" samples of cladding material, of colour and profile specified.

1.4 DESIGN

- .1 Ensure the profile and thickness of the metal wall cladding are capable of resisting 20 psf with supports.

1.5 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00.
- .2 Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, metal furring, and related work.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Pre-finished steel wall cladding: to be equalivant to or better than Agway 3-15 24 Ga. Colour by Departmental Representative.
 - .2 Pre-finished steel Roof Cladding: to be equalivant to or better than Agway 4-150 26 Ga. Colour by Departmental Representative.
 - .3 Fasteners for exterior cladding; Painted Hex Head stainless fasteners in colours to match the siding and complete the sealing flange.
 - .4 Fasteners for interior use: Hexagonal head stainless steel screws or Hilti fasteners.
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- .5 Pre-finished sheet metal flashing, foam and metal closures, and trim: factory pre-coated sheet steel of same material, thickness and finish as cladding. Provide preformed foam and metal closures matching the panel corrugations for weather tightness.
- .6 Sealants: As indicated on drawings, colour to match adjacent steel.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Protect metal surfaces in contact with concrete, mortar or other cementitious surface with isolation coating.
- .2 Touch up roofing and flashings with matching paint at abrasions of screw fasteners.

3.2 INSTALLATION INSULATED PANELS

- .1 Install cladding over support system in accordance with manufacturer's instructions.
- .2 Fasten the exterior panel to the interior wall by a system of sub-grits and fasteners applied to the wall means of self tapping screws.
- .3 Install panels true to the line, tight fitting and completely weathertight.
- .4 Exterior panels shall have caulked end laps of not less than 4" where horizontal joints occur.
- .5 Side lap shall be caulked and fastened every 18".

3.3 INSTALLATION FLASHINGS

- .1 Install pre-finished flashings in accordance with applicable CRCA FL Series specifications.
- .2 Install flashing to form weathertight junction.

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 07 92 00 - Joint Sealants.
- .2 Division 8

1.2 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM A653/A63M-01a, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.3 QUALIFICATIONS

- .1 Fabricator: Company specializing in sheet metal flashing work licensed in Nova Scotia with Nova Scotia Provincial requirements.
- .2 Installer: Worker specializing in sheet metal flashing work licensed in Nova Scotia with Nova Scotia provincial requirements.

1.4 PRE-WORK MEETING

- .1 Convene no later than two (2) weeks prior to commencing Work of this Section to review Work and details with sub-contractor's foreman and the Departmental Representative including but not limited to:
 - .1 Installation - method, subsurface prep.
 - .2 Details
 - .3 Sequencing.
- .2 Meeting requirements:
 - .1 General Contractor's site superintendent.
 - .2 Sheet metal Contractor's site foreman.
 - .3 Provide one copy of documents noted in 1.7 Submittals; items 1.7.7, and 1.7.8.
 - .4 Full size set of drawings.
 - .5 Full set of Specifications and Addendum.
- .3 If for any reason any of the above items cannot be provided, the Contractor shall advise the Departmental Representative at least 48 prior so the decision to proceed or cancel the meeting can be determined.
 - .1 If any of the items noted in Meeting Requirements item 2 above are not present and the Departmental Representative was not advised, the meeting will be cancelled and the General Contractor will bear the cost of minimum (3) hours of Departmental Representative time and any

additional Departmental Representative expenses.

1.5 SUBMITTAL FOR REVIEW

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures. Product Data: Provide data on each metal to be used.
- .2 Shop Drawings: Indicate dimensions, profile and layout, spans, joints, construction details, methods of anchorage.
- .3 Colour samples: Metal material manufacturer's colour chips minimum 50 mm x 50 mm illustrating full range of colours, finishes and patterns available for factory applied finishes - with no restrictions.
- .4 Samples: Once selection is made, submit two (2) samples of each metal finish, 200 x 200 mm in size illustrating finish colour, sheen and texture.
- .5 Manufacturer's Installation Instructions: Indicate special handling criteria, installation sequence, and cleaning procedures.
- .6 Provide a list of completed projects by the sub-contractor similar in scope and of equal or more value than this project.
- .7 Provide documented proof for each installer performing the Work of this section and is licensed in Nova Scotia with Nova Scotia Provincial requirements.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Perform in accordance with Section 01 61 00: Deliver, store, protect and handle products to site.
 - .2 Protect material from accelerated weathering by removing or venting sheet plastic shipping wrap.
 - .3 Store material under waterproof cover on pallets or plank platforms half off ground.
 - .1 Store pre-finished material in a manner to prevent twisting, bending, or abrasion, and to provide ventilation.
 - .2 Slope metal sheets to ensure drainage.
 - .3 Prevent contact with materials which may cause discolouration or staining.
 - .4 Material not protected as noted will be subject to removal from site.
 - .5 Material not protected as noted and installed will be subject to removal from site.
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PART 2 - PRODUCTS

2.1 SHEET MATERIALS

- .1 Pre-painted Galvanized Steel Sheet: 0.60 mm (24 gauge) thickness, zinc coated galvanized steel sheet to ASTM A653/A653M, Coating Designation G90 (Z275), shop pre-coated.
- .2 Finish and Colour; Colour
 - .1 Colour specified must be supplied in specified sheet gauge or thicker.
 - .2 Baycoat 8000+ series, equivalent Colorite colour.
 - .3 Custom Colour QC 2624 Silver Metallic Silver for all flashing.

2.2 ACCESSORIES

- .1 Fasteners: Provide plastic covered hex head screw complete with rubber gasket, colour match to sheet metal.
- .2 Exposed Sealant: Silicone, as specified in Section 07 92 00; colour to match sheet metal.
- .3 Protective Backing Paint: Bituminous finish.

2.3 FINISH

- .1 Back paint metal surfaces in contact with cementitious or masonry surfaces with protective backing paint to a minimum dry film thickness of 0.4 mm.

PART 3 - EXECUTION

3.1 FABRICATION

- .1 Form sections true to shape, accurate in size, square, and free from distortion or defects.
 - .2 Fabricate cleats of same materials as sheet, minimum 50 mm wide, interlockable with sheet.
 - .3 Form pieces in longest possible lengths.
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- .4 Hem all exposed edges on underside 13 mm; miter and seam corners.
- .5 Form material with flat lock seams.
- .6 Fabricate vertical faces with bottom edge formed outward 6 mm and hemmed to form drip.
- .7 Fabricate flashings for curtain wall, windows, louvers and other openings to profiles indicated and as required to provide drip edge and water seal and substrate protection.
- .8 Coordinate installation with work of other sections.
- .9 Form scuppers in shop and weld all seams.

3.2 PREPARATION

- .1 Install starter and edge strips, and cleats before starting installation.

3.3 INSTALLATION

- .1 Secure flashings in place using concealed fasteners.
 - .1 Use exposed fasteners only where permitted.
- .2 Fit flashings tight in place.
- .3 Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- .4 Seal metal joints watertight.

PART 1 – GENERAL

1.1 RELATED REQUIREMENTS

- .1 Section 04 05 00 - Common Work Results for Masonry.

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM C 919-12, Standard Practice for Use of Sealants in Acoustical Applications.
- .2 Canadian General Standards Board (CGSB)
 - .1 CGSB 19-GP-5M-1984, Sealing Compound, One Component, Acrylic Base, Solvent Curing (Issue of 1976 reaffirmed, incorporating Amendment No. 1).
 - .2 CGSB 19-GP-14M-1984, Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing (Reaffirmation of April 1976).
 - .3 CAN/CGSB-19.17-M90, One-Component Acrylic Emulsion Base Sealing Compound.
 - .4 CAN/CGSB-19.24-M90, Multi-component, Chemical Curing Sealing Compound.
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for joint sealants and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Manufacturer's product to describe:
 - .1 Caulking compound.
 - .2 Primers.
 - .3 Sealing compound, each type, including compatibility when

different sealants are in contact with each other.

- .3 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) - Material Safety Data Sheets (MSDS) in accordance with Section 01 33 00 - Submittal Procedures.
- .3 Samples:
 - .1 Submit 2 samples of each type of material and colour.
 - .2 Cured samples of exposed sealants for each colour where required to match adjacent material.
- .4 Manufacturer's Instructions:
 - .1 Submit instructions to include installation instructions for each product used.

1.4 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for incorporation into manual.

1.5 QUALITY ASSURANCE

- .1 Submit validation certificate issued by Sealant Waterproofing & Restoration Institute (SWRI) for products indicated.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect joint sealants from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Collect, separate, recycle, and reuse all site generated waste materials in accordance with Section 01 74 21 Construction/Demolition Waste Management and Disposal.
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- .2 Coordinate all work related to Section 01 74 21 Construction/Demolition Waste Management and Disposal with Contractor.

1.8 SITE CONDITIONS

- .1 Ambient Conditions:
 - .1 Proceed with installation of joint sealants only when:
 - .1 Ambient and substrate temperature conditions are within limits permitted by joint sealant manufacturer or are above 4.4 degrees C.
 - .2 Joint substrates are dry.
 - .3 Conform to manufacturer's recommended temperatures, relative humidity, and substrate moisture content for application and curing of sealants including special conditions governing use.
- .2 Joint-Width Conditions:
 - .1 Proceed with installation of joint sealants only where joint widths are more than those allowed by joint sealant manufacturer for applications indicated.
- .3 Joint-Substrate Conditions:
 - .1 Proceed with installation of joint sealants only after contaminants capable of interfering with adhesion are removed from joint substrates.

1.9 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 Health Canada.
- .2 Ventilate area of work in accordance as directed by Departmental Representative by use of approved portable supply and exhaust fans.

1.10 WARRANTIES

- .1 For respective trade sections where sealants are used, provide a warranty for material and workmanship for a period of 60 months beyond date of Substantial Performance.

PART 2 – PRODUCTS

2.1 SEALANT MATERIALS

- .1 Do not use caulking that emits strong odours, contains toxic chemicals or is not
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certified as mould resistant in air handling units.

- .2 When low toxicity caulks are not possible, confine usage to areas which off-gas to occupancy to maximize off gas time.
- .3 Where sealants are qualified with primers use only these primers.

2.2 SEALANT MATERIALS DESIGNATIONS

- .1 Type 1 - Silicones One Part.
 - .1 Non-sag.
 - .2 100% silicone, SWRI validated, room temperature vulcanizing (RTV), neutral cure.
 - .3 Classification, to ASTM C920: Type S, Grade NS, Class 50, Use NT, G, M, A, O.
 - .4 Movement capability, to ASTM C719: -50% to +50% movement.
 - .5 VOC Content: less than 90 g/l.
 - .6 Colours: to be selected from manufacturer's complete range.
- .2 Type 2 - Silicones One Part.
 - .1 Self-levelling.
 - .2 100% silicone, room temperature vulcanizing (RTV), neutral cure.
 - .3 Classification, to ASTM C920: Type S, Grade P, Class 100/50 , Use NT.
 - .4 Movement capability, to ASTM C719: -50% to +100% movement.
 - .5 VOC Content: less than 31 g/l.
 - .6 Colours: to be selected from manufacturer's complete range.
- .3 Type 3 - Silicones One Part.
 - .1 Non-sag, mildew-resistant.
 - .2 100% silicone, room temperature vulcanizing (RTV), neutral cure.
- .4 Type 4 - Acrylic Latex One Part.
 - .1 To CAN/CGSB-19.17.
 - .2 Acceptable material:
 - .1 Tremco 100 latex.
 - .2 Sonneborn Sonolac.
 - .3 GE Acryseal.
- .5 Type 5 - Acoustical Sealant.
 - .1 To ASTM C 919-08.
 - .2 Acceptable material:
 - .1 Tremco Spectrum 2.
 - .2 Dow 795.
 - .3 OSI Draft & Acoustical.

- .6 Preformed Compressible and Non-Compressible back-up materials.
 - .1 Polychloroprene ("Neoprene") or Butyl Rubber.
 - .1 Round solid rod, Shore A hardness 70.
 - .2 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 foam backer, size as recommended by manufacturer.
 - .3 Bond Breaker Tape.
 - .1 Polyethylene bond breaker tape which will not bond to sealant.

2.3 SEALANT SELECTION

- .1 Perimeters of exterior openings where frames meet exterior facade of building: sealant type: 1.
 - .2 For composite aluminum panels, preformed metal siding: sealant type: 1.
 - .3 Expansion and control joints in exterior surfaces of poured-in-place concrete walls: sealant type: 1.
 - .4 Control and expansion joints in exterior surfaces of unit masonry walls: sealant type: 1.
 - .5 Coping joints and coping-to-facade joints: sealant type: 1.
 - .6 Exterior joints in horizontal wearing surfaces (as itemized): sealant type: 2.
 - .7 Seal interior perimeters of exterior openings as detailed on drawings: sealant type: 4.
 - .8 Control and expansion joints on the interior of exterior poured-in place concrete walls: sealant type: 1.
 - .9 Control and expansion joints on the interior of exterior surfaces of unit masonry walls: sealant type: 1.
 - .10 Interior control and expansion joints in floor surfaces: sealant type: 2.
 - .11 Perimeters of interior frames, as detailed and itemized: sealant type: 4.
 - .12 Interior masonry vertical control joints (block-to-block, block-to-concrete, and intersecting masonry walls): sealant type: 1.
 - .13 Perimeter of bath fixtures (e.g. sinks, tubs, urinals, stools, water closets, basins, vanities): sealant type: 3.
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- .14 Exposed interior control joints in drywall: sealant type: 4.
- .15 Joints at tops of non-load bearing masonry walls at the underside of steel deck, except where firestop and smoke seal is required: Sealant Type: 1.
- .16 Concealed joints in vapour barrier and between other components comprising vapour barrier of building envelope where concealed: Sealant Type 5.

2.4 JOINT CLEANER

- .1 Non-corrosive and non-staining type, compatible with joint forming materials and sealant in accordance with sealant manufacturer's written recommendations.
- .2 Primer: in accordance with sealant manufacturer's written recommendations.

PART 3 – EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for joint sealants installation in accordance with manufacturer's written instructions.
 - .1 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .2 Proceed with installation only after unacceptable conditions have been remedied.

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.
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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 MIXING

- .1 Mix materials in strict accordance with sealant manufacturer's instructions.

3.6 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.

3.7 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Clean adjacent surfaces immediately.
 - .3 Remove excess and droppings, using recommended cleaners as work progresses.
 - .4 Remove masking tape after initial set of sealant.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

3.8 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by joint sealants installation.