

DIVISION 7
THERMAL AND MOISTURE
PROTECTION



SECTION 07160

DAMP-PROOFING

PART 1 - GENERAL

1.1 Description

- A. This section covers paint type damp-proofing of concrete and masonry below grade.

1.2 Submittals

- A. Shop Drawings, reference Section 01340, include the manufacturer's specifications and material MSDS.

1.3 Product Delivery, Storage and Handling

- A. Delivery.
 - 1. Original containers with labels intact.
 - 2. Unopened containers.
- B. Storage.
 - 1. Inside structure.
 - 2. Do not allow to freeze.

PART 2 - PRODUCTS

2.1 Coatings

- A. Coal Tar.
 - 1. Koppers "Bitumastic Super Black Solution".
 - 2. Tnemec "449 Tnemecol".
 - 3. Porter "Tarmastic 100".
 - 4. Or equal.

PART 3 - EXECUTION

3.1 Application

A. Surface Preparation.

1. Remove foreign matter to clean concrete.
2. Remove oil or grease with solvents.
3. Protect adjacent surfaces not to be coated.
4. Temperature of surface and air above 50°F.

B. Application.

1. Apply coats of damp-proofing as recommended by manufacturer.
2. Two coat minimum with a total thickness of 15 mils minimum dry film thickness.

C. Take special care in areas of small air pockets.

3.2 Location Schedule

- A. Coat with coal tar all exterior concrete foundations below grade and exterior of precast vaults associated with yard piping.

END OF SECTION

SECTION 07200

INSULATION

PART 1 - GENERAL

1.1. DESCRIPTION

- A. This Section covers thermal insulation of walls and roof.
- B. Thermal insulation applications are as follows:
 - 1. Foam insulation in all ungrouted masonry cores of exterior walls.
 - 2. Rigid insulation on steel roof deck.
 - 3. Rigid insulation at perimeter of foundation
 - 4. Other insulation as shown on the Drawings.

1.2. QUALITY ASSURANCE

- A. Thermal conductivity: The thicknesses shown are for the thermal conductivity (K-Value at seventy-five degrees F.) specified for each material. Provide compensating thicknesses of material having a different thermal conductivity.
- B. Insulation shall be rated "FIRE ACCEPTABLE" by UL for the condition of "Roof Deck Construction".

1.3. SUBMITTALS

- A. Submit manufacturer's installation instructions and specifications for each type of insulation.

1.4. PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Store and handle insulation materials in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.1. EXTRUDED POLYSTYRENE PLASTIC BOARD INSULATION

- A. Rigid closed-cell, expanded polystyrene board complying with FS-HH-I-524, Type II, Class B; 30 psi compressive strength; 1.0 perm per inch water absorption; thermal conductivity (K-Value at seventy-five degrees F.) of 0.20; manufacturer's standard sizes.
- B. Manufacturers.

1. Styrofoam SM; Dow Chemical.
2. Thermax; Celotix
3. Amofam; Amoco Foam Products
4. Or approved equal.

2.2. RIGID ROOF INSULATION BOARD

A. Polyisocyanurate Board.

1. Provide foam board, integrally laminated to heavy, coated glass facers.
2. Total average thermal conductivity (K at seventy-five degrees F.) of 0.14 and a total thermal conductance ("C" factor of 0.05) per ASTM C-518.
3. Size: Manufacturer's standard size, square edge.
4. Provide R-20 minimum insulation thickness at roof deck.
5. Manufacturers.
 - a. Schuller – "UltraGard"
 - b. Celotex - "Hy-Therm AP".
 - c. Johns Manville
 - c. Or equal.

2.3. FOAM INSULATION

A. Two component foam insulation (resin/catalyst).

1. Aqueous resin solution and foaming agent/catalyst with a density of 0.8 to 1.3 pounds per cubic foot which provide and R-value of 4.3 per inch.
2. Manufacturers.
 - a. Core-Fill (Tailored Chemical Products, Inc.).
 - b. Tripolymer Foam (C.P. Chemical Co., Inc.).
 - c. Thermco Foam (Thermal Corp. of Amercia).
 - d. Or equal.

2.4. TAPERED INSULATION AT ROOF CRICKETS

- A. Where tapered insulation is called for on the roof plan at drainage slopes and crickets provide tapered systems by manufacturers listed in Section 2.2 above.
- B. Slope to be ¼" per foot.
- C. Conform to Federal Specification HH-1-524, Type I, Class A.

2.5. MISCELLANEOUS MATERIALS

- A. Base sheet vapor barrier at roof insulation: 2 plys, asphalt coated, inorganic fiber glass mat.
- B. Preformed cant strips at roof insulation: As manufactured by the roof insulation supplier and formed of the same or similar material.
- C. Use adhesive for bonding rigid insulation to concrete surfaces and vapor barrier base sheets as recommended by the insulation manufacturer.

PART 3 - EXECUTION

3.1. PREPARATION OF SUBSTRATE

- A. Wood and concrete surfaces: Firm, dry, clean and, at roof areas, properly graded to roof drains.
- B. Install wood nailer and curbs.

3.2. INSPECTION

- A. Inspect the substrate at insulation locations before insulation is begun.
- B. Do not commence with installation until unsatisfactory conditions have been corrected.

3.3. INSTALLATION

- A. General.
 - 1. Do not commence installation of insulation until subsequent Work covering insulation is ready to be performed.
 - 2. Comply with manufacturer's instructions for the particular conditions of installation.
 - a. Consult manufacturer's technical representative for specific recommendations if printed instructions do not apply to project conditions.
 - 3. Extend insulation full thickness over entire area to be insulated.

4. Fit tightly around obstructions and fill voids with insulation.
 5. Remove projection which interfere with placement.
- B. Roof Deck Insulation at steel roof deck.
1. Apply one (1) layer of felt vapor barrier lapping each felt four inches (4") over the preceding one and mopping the full width under each felt with asphalt at a minimum rate of twenty-three pounds (23 lbs.) per square.
 - a. Turn edges of felt up six inches (6") at vertical surfaces.
 2. Apply units of insulation with long joints continuous and horizontal joints staggered.
 - a. Mop full width under insulation with asphalt at a rate of thirty pounds (30 lbs.) per square.
 3. Prior to roofing application, turn six inch (6") projections of vapor barrier at vertical edges over the insulation and mop solidly with asphalt.
- C. Insulative fill at exterior concrete masonry - Reference Section 04200 - Unit Masonry.
1. Foam insulation directly into ungrouted cells of exterior CMU walls.
 2. Fill openings in wall through which insulation can escape prior to installation of insulation.
 3. Provide copper fiberglass screening at weep holes.
- D. Tapered insulation at roof drainage slopes and crickets.
1. Apply units of tapered insulation over roof deck or insulation. Set in full width mopped asphalt at a rate of thirty pounds (30 lbs.) per square.

END OF SECTION

SECTION 07530

LOOSE-LAID ELASTOMERIC ROOFING

PART 1 - GENERAL

1.1. DESCRIPTION

- A. Provide labor, materials, equipment, and supervision necessary to complete the installation of a fully adhered EPDM (Ethylene Propylene Diene Monomer) rubber roofing system.
- B. The extent of the EPDM roofing system is shown on the Drawings. The system is hereby defined to include all components of the fully adhered EPDM rubber roofing system necessary to provide a watertight, primary roofing membrane intended for weather exposure.
- C. Related Work Specified Elsewhere.
 - 1. Section 07200 - Insulation.
 - 2. Section 07600 - Flashing and Sheet Metal.

1.2. QUALITY ASSURANCE

- A. Roofing system applicator shall be approved in writing by the manufacturer.
- B. The completed roofing project shall be inspected by the manufacturer. A watertight warranty and a material warranty shall be issued to the Owner by the manufacturer of the EPDM sheeting.
- C. The roof shall be classified by Underwriters Laboratories, Inc. as a Class "A" sheathing material for use in construction of Class "A" built-up roof coverings.
- D. Make no deviation from this specification without prior written approval of the Engineer and manufacturer of materials.

1.3. ACCEPTABLE MANUFACTURERS

- A. Carlisle Syntec Systems (EPDM).
- B. Firestone Building Products CO
- C. GenFlex Roofing Systems
- D. Or approved equal.

1.4. SUBMITTALS

- A. Submit Shop Drawings for approval. Shop Drawings shall be approved and assigned a number by the manufacturer. Shop Drawings shall include: Outline of roof and roof size, location and type of penetrations, perimeter details, penetration details, and splice locations.
- B. Manufacturers Applicator Approval Certificate.
- C. Sample 10-year watertight warranty.
- D. Sample 20-year material warranty.
- E. ICBO-approved wind design for appropriate geographic location. Reference ICBO report No. 3826 May 1983.

1.5. PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original, unopened containers.
- B. Containers shall show manufacturer's name, brand name, and installation instructions.
- C. All materials except the membrane must be stored between sixty degrees F. (60°F.) and eighty degrees F. (80°F.). If exposed to lower temperatures, the materials must be restored to sixty degrees (60°F.) before using.
- D. All materials except the membrane must be stored in a dry area.
- E. Membrane may be stored outside but must be protected from mechanical damage.

1.6. PROJECT SITE CONDITIONS

- A. The roof deck shall be free of water, ice, or snow.
- B. Splicing of the membrane shall not be done during rain or snow.
- C. There is no temperature limitation on the installation of the EPDM Membrane.

1.7. WARRANTY

- A. A representative of the manufacturer shall inspect the completed roofing system. Upon approval, a 10-year watertight warranty and 20-year material warranty shall be issued by the manufacturer. The warranties shall be in effect when the manufacturer is notified of completion.

PART 2 - PRODUCTS

2.1. GENERAL

- A. Membrane system components to be products of a single manufacturer or certified and warranted to be compatible by the membrane manufacturer on company letterhead.

2.2. MEMBRANE

- A. EPDM rubber roofing membrane, .060 inches thick, non-reinforced fifty feet (50') by one hundred feet (100') or the largest sheet possible as determined by job condition.

2.3. RELATED MATERIALS

- A. Wall and curb flashing shall be cured EPDM membrane. Continue the deck membrane as wall flashing where practical
- B. Adhesives, cements, and sealants shall be furnished by the membrane manufacturer or certified and warranted to be compatible by that manufacturer on company letterhead.
- C. Follow manufacturer's typical flashing procedures for all wall, curb and penetration flashing including metal edging/coping and roof drain applications.
- D. All fasteners and plates shall be furnished by the membrane manufacturer or certified and warranted to be compatible by that manufacturer on company letterhead.

PART 3 - EXECUTION

3.1. SUBSTRATE INSPECTION

- A. Inspect proper substrate to receive the EPDM roofing system. Roofing subcontractor shall notify contractor in writing of defects in the substrate, and work shall not proceed until defects have been corrected.

3.2. INSTALLATION

- A. Membrane.
 - 1. Position roofing membrane over approved substrate without stretching.
 - 2. Allow membrane to relax approximately one-half ($\frac{1}{2}$) hour prior to splicing and flashing.
 - 3. Position adjoining sheets in same manner lapping edges a minimum of three inches (3").
- B. Splicing.

1. Splice shall be three-inch (3") minimum overlap. Splice area shall be cleaned with Sure-Seal Splice Wash, or equal, and bonded with manufacturer's splice cement. The edge of all splices shall be sealed with a bead of lap sealant prior to the need of each working day.
- C. Perimeter Nailing: Mechanical Fastening Devices shall be installed at the perimeter of each roof level, curb flashing, skylight, expansion joint, and similar penetration as follows:
1. Rubber Fastening Strips: RFS shall be mechanically fastened through membrane, insulation, and into roof deck or into the parapet using FM-approved insulation fastening screws.
 2. Wood Nailer: Installed at the gravel stop perimeter of each roof level. Shall be pressure-treated with salt preservative; creosote or asphalt preservatives not acceptable.
 - a. Anchor wood nailers to resist a force of seventy-five pounds (75 lbs.) per lineal foot in any direction. The thickness of the nailer shall be such that the top of the nailer is flush with the surface to which the membrane is to be applied as approved by membrane manufacturer.
- D. Flashing: Perimeter flashing and flashing around vents, skylights, and other penetrations shall be done with cured EPDM flashing using the longest pieces practical. Splice shall extend at least three inches (3") beyond the RFS. All flashings and terminations shall be done in accordance with manufacturers approved details.
1. Flash all penetrants (pipes and conduits) passing through the membrane with molded pipe flashings where possible. Where molded pipe flashings cannot be installed, use field fabricated pipe seals.
 2. Seal clusters of pipes and unusual-shaped penetrations with a manufacturer's approved pourable sealer. Use pitch pocket-type seal as shown in manufacturers standard details.
 3. Roof Drains:
 - a. Taper insulation around drain to provide a smooth transition from roof surface to drain clamping ring.
 - b. Seal between membrane and drain base shall be water cut-off mastic as shown in manufacturers approved details.
- E. Daily Seal: Exercise care to ensure that water does not flow beneath any completed sections of roof. Temporarily seal loose edge of membrane with a manufacturer's approved seal when weather is threatening.

END OF SECTION
07530-4

SECTION 07600

FLASHING AND SHEET METAL

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes:

1. Flashing and Counterflashing
2. Parapet Flashing Cap
3. Overflow Scuppers
4. Reglets
5. Downspouts, gutters, and splash pans
6. Other sheet metal flashing related to the above, indicated on the Drawings and not specified elsewhere.

B. Related Requirements:

1. Wood Blocking and Nailers: Section 06100
2. Loose Laid Elastomeric Roofing: Section 07530
4. Sealants: Section 07900
5. Painting: Section 09900

1.02 QUALITY ASSURANCE

A. Reference Standards: Comply with following:

1. "Architectural Sheet Metal Manual", 1979 edition, as published by Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
2. National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual, 1985 edition.

B. Pre-Installation Conference: Coordinate with general Progress Meeting as specified in Section 01040, Attend conference with roofing installer, roofing manufacturer's representative, General Contractor.

1.03 SUBMITTALS

A. Shop Drawings: Submit in accordance with Section 01300. Include:

1. Overall layout of sheet metal work

2. Type, thickness, and details of sheet metal components.
3. Joints, expansion joints, attachment and anchoring of sheet metal components.

B. Quality Control Submittals:

1. Warranty: Submit to ENGINEER, for distribution to the CITY.

C. Samples: Submit color samples for Owner's selection.

1.04 PROJECT CONDITIONS

- A. Field Measurements: Before fabricating sheet metal, verify shapes and dimensions of surface to be covered.

1.05 WARRANTY

- A. Sheet Metal: Provide one year written warranty covering materials and installation for sheet metal.

1. Include that system shall be watertight and weatherproof.

- B. Finish: Provide manufacturer's 20 year warranty that finish on prefinished metal will not crack, peel, chalk, or fade.

PART 2 – PRODUCTS

2.01 SHEET METAL

- A. Galvanized Iron: ASTM A526-80 commercial sheet steel, ASTM A-525-83, G90 commercial hot-dip galvanizing. Provide gages as indicated and specified, 24 gage minimum.

1. Finish: Mill phosphataized for painted finish.

- B. Prefinished Sheet Metal: 24 Gauge standard finish

1. Manufacturer's

- a. Kynar 500 protected with plastic film as manufactured by Berridge,
- b. Foremost
- c. AEP-SPAN
- d. Vincent ColorKlad

e. Or approved Equal.

2. Custom colors as selected by Owner/Engineer. Use in locations exposed to view.

2.02 ACCESSORY MATERIAL

- A. Clips or Cleats: Same material and gage as sheet metal being installed.
- B. Nails and Fasteners: Same metal as metal being installed or other non-corrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.
- C. Roofing Felt: ASTM D226-82, #15 asphalt saturate felt.
- D. Solder: ASTM B32-83, ½ lead, ½ tin. Use rosin or flux.
- E. Sealant: Approved type of polyurethane; see Section 07900. Roofers mastic is not acceptable.
- F. Epoxy Seam Sealer: Two part non-corrosive metal seam cementing compound as recommended by metal sheet manufacturer for exterior non-moving joints including riveted joints.

2.02 REGLETS

- A. Reglets: Preformed, Type Stucco and Type Masonry, 24 gage galvanized steel with standard zinc finish.
- B. Accessories: Provide prefabricated mitered corners, lap joints, drive pins and neoprene-steel washers.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions:
 - 1. Examine surfaces to receive flashing or sheet metal. Surfaces shall be smooth, sound, clean and dry and fabric flashing in place before work is started.
 - 2. Notify General Contractor of unsatisfactory conditions.

3.02 PREPARATION

- A. Coordination: Coordinate work of this Section with work of other sections. Verify place of wood blocking, inserts, nailing strips, cants, etc. Coordinate with Section 07532.

- B. Protective Coating: Coat contacting dissimilar metals with asphaltic compound.

3.03 WORKMANSHIP

- A. Unless indicated otherwise on Drawings, workmanship and details shall comply with NRCA Manual and SMACNA Architectural Sheet Metal Manual.

3.04 SHEET METAL

- A. Flashing and Counterflashing Concealed from View: 20 gage galvanized iron. Lock and solder joints and hem exposed edges.
- B. Cap Flashing and other Flashing Exposed to View: Prefinished metal. Hem all exposed edges. Fascia joints shall be installed according to SMACNA, Fifth Edition, Page 2.8, figure 2-5c.
- C. Overflow Scupper: As detailed of 20 gage galvanized iron similar to SMACNA Plate 26. Hem edges. Solder joints. Caulk around flanges with sealant.

3.05 REGLET FLASHING

- A. General: Install reglets and counterflashing as recommended by manufacturer. Seal top edge of reglet with sealant. See drawings for installation of reglet at stucco walls and Type MA reglet at masonry walls.

3.06 SCUPPERS

- A. Construct scuppers and exterior downspouts of 20 gauge galvanized iron. Unless otherwise indicated, construct scuppers according to SMACNA, Fifth Edition, page 1.59, Figure 1-32E. All gutters and downspouts to be prefinished metal.

END OF SECTION

SECTION 07810
PLASTIC SKYLIGHTS

PART 1 GENERAL

1.1 DESCRIPTION OF WORK

- A. Plastic skylight with integral insulated curb.

1.2 RELATED SECTIONS

- A. Section 07530: Loose-Laid Roofing system and base flashing at skylight curb.

1.3 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 01300.

1.4 SEQUENCING AND SCHEDULING

- A. Coordinate work of this Section with the installation of roofing system.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Skyline Products
- B. Plasti-Crafts, Inc.
- C. Bristolite Skylights
- D. Naturalite/EPI
- E. Or Approved Equal

2.2 MATERIALS

- A. Nominal Size: 48 x 48 inches single unit.
- B. Configuration: Double units.
- C. Shape: Convex.
- D. Double Dome: Acrylic plastic, white translucent outer dome, clear inner dome; air sealed.
- E. Unit Frame: Extruded aluminum, thermally broken, reinforced corner joints, integral curb frame mounting flange to receive roof flashing system, with integral condensation drainage gutter.
- F. Support Curb: Sheet aluminum, sandwich construction; fibrous glass insulated; with integral flange for anchorage to roof deck.

2.3 ACCESSORIES

- A. Anchorage Devices: Type recommended by manufacturer, exposed to view.

2.4 FABRICATION

- A. Fabricate free of visual distortion and defects.
- B. Provide for removal of condensation.
- C. Provide weathertight assembly.
- D. Fabricate to drain water entering joints, or migrating moisture occurring within unit, to exterior.

2.5 FACTORY FINISHING

- A. Aluminum: Clear anodized.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate with installation of roofing system and related flashings.
- C. Apply bituminous paint on aluminum surfaces of units in contact with cementitious materials or dissimilar metals.
- D. Provide weathertight installation.

END OF SECTION

SECTION 07900
JOINT SEALANTS

PART 1 - GENERAL

1.1. DESCRIPTION OF WORK

- A. The extent of each type of sealant and caulking work is as indicated on Drawings or specified herein.
- B. Required applications of sealants and caulking include, but are not limited to, the following general locations:
 - 1. Flashing reglets and retainers.
 - 2. Coping members, bed, and joints.
 - 3. Exterior and interior wall joints.
 - 4. Isolation joints between structure and other elements
 - 5. Joints at penetrations of walls, decks, and floors by piping and other services and equipment.
 - 6. Joints between items of equipment and other construction.
 - 7. At doors, windows, louvers, and other miscellaneous wall openings.
 - 8. Expansion joints for structures not under fluid pressures.
 - 9. Contraction joints for structures subject to fluid pressures.

1.2. SUBMITTALS

- A. Submit Shop Drawings for each type of sealant, caulking compound, and associated miscellaneous material required.
 - 1. Include letter of certification or certified test laboratory report indicating that each material complies with the Specifications and is intended for the applications shown.
 - 2. Select Color Options for Selection by Engineer/Owner
- B. Guarantee, Sealants: Submit two (2) copies of written guarantee.

1.3. JOB CONDITIONS

A. Condition of Other Work.

1. Make sure that joint surfaces, backing, and anchorage of units forming sealant rabbet, and conditions under which sealant work is to be performed, will permit satisfactory results. Do not proceed with sealant work until unsatisfactory conditions have been corrected.
2. Weather Conditions: Do not proceed with installation of sealants under adverse weather conditions, or when temperatures are below or above manufacturer's recommended limitations for installation. Proceed with work only when forecasted weather conditions are favorable for proper cure and development of high early bond strength. Wherever joint width is affected by ambient temperature variations, install elastomeric sealants only when temperatures are in lower third of manufacturer's recommended installation temperature range, so sealant will not be subjected to excessive elongation and bond stress at subsequent low temperatures.

1.4. CORRECTION OF WORK

A. Conditions.

1. Repair or replace sealants which:
 - a. Fail to perform as airtight and watertight joints.
 - b. Fail in joint adhesion, cohesion, abrasion resistance, weather resistance, extrusion resistance, migration resistance, stain resistance, or general durability.
 - c. Deteriorate in manner not clearly specified as inherent quality of material.
2. Agree to repair or replace adjoining work affected by the above.

B. Correction period: One (1) year from Final Completion.

PART 2 - PRODUCTS

2.1. GENERAL

A. Colors.

1. Exposed locations.
 - a. Provide color selected by Engineer from manufacturer's standard colors.
2. Unexposed locations.

- a. Provide manufacturer's standard color which has best overall performance characteristics for application shown.

2.2. FIELD-MOLDED SEALANTS

- A. Thermoplastic, Hot applied: ASTM D1190.
 1. Concrete joint sealer, hot-poured elastic type.
 2. Use only at horizontal joints.
- B. Thermoplastic, Cold applied:
 1. Concrete joint sealer, cold-application type, ASTM D1850.
 2. Sealant at flashing reglets and retainers, coping members in contact with supporting structure.
 - a. Manufacturer.
 - 1) DAP, Inc.
 - 2) Pecora Corporation.
 - 3) Sika
 - 4) Or equal.
- C. Thermosetting, chemically curing:
 1. Provide two-component polyurethane sealant at joints between the exterior wall joints and joints at wall penetrations and roof penetrations.
 - a. Two-Part Modified Polyurethane Rubber Sealant, conforming to Federal Specification TT-S-00227, Class A, Type 2 (non-sag) unless Type 1 (self-leveling) is recommended by the manufacturer for the application shown.
 - b. Manufacturers.
 - 1) Pecora Corporation
 - 2) Tremco
 - 3) Sonneborn
 - 4) Or Approved Equal
 2. Joints subject to fluid pressure provide a two-component, non-sag, self-leveling polyurethane sealant.

- a. Sika Corporation
- b. Tremco
- c. Sonneborn
- d. Or approved equal.

D. Back-up Material.

- 1. Shall be used to limit the depth of sealant and support against sagging, indentation and displacement by traffic, fluid pressure, etc., facilitate tooling.
- 2. Provide back-up material of closed cell polyethylene foam: compatible with sealant, rigid and shaped to provide proper comparison upon insertion in accordance with manufacturer's recommendations.

2.3. ACCESSORIES

A. Joint Cleaner.

- 1. Provide type of joint cleaning compound recommended by the sealant manufacturer's for the joint surface to be cleared.

B. Primer/Sealer.

- 1. Provide the type of joint primer/sealer recommended by the sealant manufacturer for the joint surfaces to be primed or sealed.

PART 3 - EXECUTION

3.1. JOINT PREPARATION

- A. For elastomeric sealants, do not proceed with installation of sealant over joint surfaces which have been painted, lacquered, waterproofed, or treated with water repellent or other treatment or coating unless a laboratory test for durability (adhesion), has successfully demonstrated that sealant bond is not impaired by the coating or treatment. If laboratory test has not been performed, or shows bond interference, remove coating or treatment from joint surfaces before installing sealant.

3.2. INSTALLATION

- A. Comply with sealant manufacturer's written instruction except where more stringent requirements are shown or specified.
- B. Prime or seal joint surfaces wherever recommended by sealant manufacturer. Do not allow primer/sealer to spill or migrate onto adjoining surfaces.

- C. Install sealant backer rod except where recommended to be omitted by sealant manufacturer for application shown.
- D. Employ only proven installation techniques, which will ensure that sealants will be deposited in uniform, continuous ribbons without gaps or air pockets, with complete "wetting" of joint bond surfaces equally on opposite sides.
 - 1. Except as otherwise indicated, fill sealant rabbet to slightly concave surface, level with adjoining surfaces.
 - 2. Where horizontal joints are between horizontal surface and vertical surface, fill joint to form a slight cove, so joint will not trap moisture and dirt.

END OF SECTION

