

SECTION 07 90 00

JOINT SEALERS

1 PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of contract including General and Supplementary Conditions and Division 1 specification sections apply to Work of this section.

1.2 SECTION INCLUDES

- A. Sealants and joint backing.
- B. Provide only materials that comply with the following VOC limits in grams per liter per South Coast Rule #1168 by the South Coast Air Quality Management District:
 - 1. Architectural Sealants 250
 - 2. Other Sealants 420
 - 3. Architectural Primers – nonporous 250
 - 4. Architectural Primers – porous 775
 - 5. Other Primers 750

1.3 SUBMITTALS

- A. Product Data: Provide data indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, color availability.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

2 PART 2 PRODUCTS

2.1 SEALANTS

- A. Type A - General Purpose Exterior Sealant: Polyurethane; ASTM C 920, Grade NS, Class 25, Uses NT, M, G, A and O; single component; Sonneborn Sonolastic NP 1, or equal.
 - 1. Color as selected from manufacturer's standard range.
 - 2. Applications: Use for:
 - a. Joints between concrete and other materials.
 - b. Joints between brick and other materials.
 - c. Joints between metal frames and other materials.
 - d. Joints between siding and other materials.

- e. Joints between exterior wall wood framing members, including studs, plates, band joists.
 - f. Other exterior joints for which no other sealant is indicated.
- B. Type B - Exterior Metal Lap Joint Sealant: Butyl or polyisobutylene, ASTM C 1311, nondrying, non-skinning, non-curing; DAP Butyl-Flex, or equal.
 - 1. Applications: Use for:
 - a. Concealed sealant bead in sheet metal work.
 - b. Bedding for door thresholds.
- C. Type C - General Purpose Interior Sealant: Siliconized Acrylic emulsion latex; ASTM C834, single component, paintable; DAP Alex Plus, or equal.
 - 1. Color as selected from manufacturer's standard range.
 - 2. Applications: Use for:
 - a. Interior wall and ceiling control joints.
 - b. Interior joints between door and window frames and wall surfaces.
 - c. Other interior joints for which no other type of sealant is indicated.
- D. Type D - Bathtub/Tile Sealant: White silicone; ASTM C920, Uses NT, G and A; single component, mildew resistant; Sonneborn Sonolastic Omniplus, or equal.
 - 1. Applications: Use for:
 - a. Joints between plumbing fixtures and floor and wall surfaces.
 - b. Joints between kitchen and bath countertops and wall surfaces.
- E. Type E - Acoustical Sealant: Butyl or acrylic sealant; ASTM C920, Grade NS, Class 12-1/2, Uses M and A; single component, solvent release curing, non-skinning.
 - 1. Applications: Use for concealed locations only:
 - a. Sealant bead between top stud plate and structure and between bottom stud plate and floor.
- F. Type F - Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component; Sonneborn Sonolastic SL1, or equal.
 - 1. Color as selected from manufacturer's standard range.
 - 2. Applications: Use for:
 - a. Expansion joints in floors.
- G. Type G - Concrete Paving Joint Sealant: Polyurethane, self-leveling; ASTM C920, Class 25, Uses T, M and A; single component; Sonneborn Sonolastic SL1, or equal.
 - 1. Color as selected from manufacturer's standard range.
 - 2. Applications: Use for:
 - a. Joints in sidewalks and vehicular paving.

- H. Type H – Insulating Foam Sealant: Latex foam sealant, non expanding, paintable; DAPtex Plus, or equal.
 - 1. Applications: Use for concealed locations only:
 - a. Joints around windows and doors in exterior walls.
- I. Type I – Elastomeric Latex Sealant: Acrylic polymer sealant, ASTM C 920, Type S, Grade NS, Class 25, low odor, mildew resistant, paintable; DAP Dynaflex 230, or equal.
 - 1. Applications: Use for concealed locations only:
 - a. Joints between exterior extruded polystyrene insulation boards.

2.2 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: Round foam rod compatible with sealant, ASTM C 1330, Type C, closed cell polyethylene foam oversized 30 to 50 percent larger than joint width.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

3 PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Verify that substrate surfaces and joint openings are ready to receive work.
- B. Verify that joint backing and release tapes are compatible with sealant.
- C. Remove loose materials and foreign matter which might impair adhesion of sealant.
- D. Clean and prime joints in accordance with manufacturer's instructions.
- E. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

3.2 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Perform acoustical sealant application work in accordance with ASTM C919.

- D. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- E. Install bond breaker where joint backing is not used.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- G. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- H. Tool joints concave.

...END OF SECTION 07 90 00