

## SECTION 07 92 00 - JOINT SEALANTS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including the Division 1 Specification Sections, apply to this Section. All work to be performed under this Section is to be included in the General Swimming Pool and Construction Contract.
- B. Refer to other Divisions of these Specifications to determine the type and extent of work therein affecting the work of this trade, whether or not such work is specifically mentioned in this Section.

#### 1.2 SUMMARY

- A. Provide all sealants and caulking including, but not limited to glazing sealants, (both wet and dry), expansion joint filler, and caulks, exterior caulking, and interior caulking.

#### 1.3 QUALITY ASSURANCE

- A. General sealer performance requirements: Select material for compatibility with joint surfaces and other indicated exposures. Select modulus of elasticity and hardness of grade recommended by manufacturer for each application indicated. Where exposed to foot traffic, select marketing materials of sufficient strength and hardness to withstand stiletto heel traffic without damage or deterioration of sealer system.
- B. Provide colors as indicated, or if not indicated, color as selected by the Architect from manufacturer's standard colors.

### PART 2 - PRODUCTS

#### 2.1 SEALANTS

- A. Sealant No. 1 (interior sealant caulk): GE Silicone sanitary sealants SCS-1702 white, as manufactured by General Electric Silicone Products Department, Waterford, New York.
- B. Sealant No. 2 (control joint, dissimilar materials, and joints): Sikaflex 2C-NS, one-part, polyurethane sealant as manufactured by Sika Corporation, Lyndhurst, New Jersey. Color selected by Architect. (for use in vertical and horizontal surfaces)

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- C. Sealant No. 3 (expandable sealant): Adeka Ultra Seal, P-201 expandable, one-part elastic sealant, as manufactured by Asahi Denka Kogyo K.K., Tokyo, Japan. Manufacturer's standard color.
- D. Sealant No. 4 (for use at pool accessories, fittings, and elements requiring sealant prior to placing concrete fill): Thiokol LP Liquid Polysulfide base as manufactured by Thiokol Corporation, Trenton, New Jersey. Color selected by Architect.
- E. Sealant No. 5 (for use at dissimilar material in contact with water): Ardex SX 100% Silicone sealant as manufactured by Ardex Americas, Aliquippa, PA. Color selected by Architect.
- F. Sealant No. 6 (for use in keyways and cold joints): 1"x ¾" expansive roping, as manufactured by Greenstreak, Inc., St. Louis, Missouri.
- G. Bond Breaker: 3M 226, 48, 710 as manufactured by 3M Corporation.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Comply with manufacturer's printed instruction except where more stringent requirements are specified and except where manufacturer's technical representative directs otherwise.
  - 1. Elastomeric Sealant Installation Standard: Comply with ASTM C 962.
  - 2. Solvent-Release-Curing Sealant Installation Standard: Comply with ASTM C 804.
  - 3. Latex Sealant Installation Standard: Comply with ASTM C 790.
  - 4. Acoustical Sealant Application Standard: Comply with ASTM C 919 for use of joint sealants in acoustical applications.
  - 5. Installation of Fire-Stopping Sealant: Install sealant, including forming, packing and other accessory materials to fill openings around mechanical and electrical services penetrating floors and walls to provide fire-stops with fire resistance ratings indicated.
- B. Do not proceed with installation of liquid sealants under unfavorable weather conditions. Install elastomeric sealants when temperature is in lower third of temperature range recommended by manufacturer for installation.
- C. Clean joint surfaces immediately before installation of sealant or caulking compound. Remove dirt, insecure coatings, moisture, and other substances which could interfere with bond of sealant or caulking compound. Etch concrete and masonry joint surfaces as recommended by manufacturer. Roughen vitreous and glazed joint surfaces as recommended by manufacturer.

- D. Set joint filler units at proper depth or position in joint to coordinate with other work, including installation bond breakers, backer rods and sealants. Do not leave voids or gaps between ends of joint filler units.
- E. Install sealant backer rod for liquid elastomeric sealants, except where required by manufacturer's recommendations, to ensure that sealant will perform properly.
- F. Install bond breaker tape where indicated and where required by manufacturer's recommendations to ensure that elastomeric sealant will perform properly.
- G. Employ only proven installation techniques, which will ensure that sealants are deposited in uniform, continuous ribbons without gaps or air pockets, with complete "wetting" of joint bond surfaces equally on opposite sites. Except as otherwise indicated, fill sealant rabbet to a slightly concave surface, slightly below adjoining surfaces. Where horizontal joints are between a horizontal surface and vertical surface, fill joint to form a slight cover, so that joint will not trap moisture and dirt.
- H. Install sealant to depths as shown or, if not shown, as recommended by sealant manufacturer but within the following general limitations measured at center (thin) section of bead:
  - 1. Sidewalks, pavements, and similar joints sealed with elastomeric sealants, subject to traffic and other abrasion and indentation exposures, fill joints to a depth equal to 75% of joint width, but neither more than 5/8" deep nor less than 3/8" deep.
  - 2. For normal moving joints sealed with elastomeric sealants but not subject to traffic, fill joints to a depth equal to 50% of joint width, but neither more than 1/2" deep nor less than 1/4" deep.
  - 3. For joints sealed with non-elastomeric sealants and caulking compounds, fill joints to a depth in range of 75% to 125% of joint width.
- I. Spillage: Do not allow sealants or compounds to overflow or spill onto adjoining surfaces, or to migrate into voids of adjoining surfaces. Clean adjoining surfaces by whatever means may be necessary, as recommended by manufacturer, to eliminate evidence of spillage.
- J. Recess exposed edges of gasket and exposed joint fillers slightly behind adjoining surfaces, unless otherwise shown, so that compressed units will not protrude from joints.
- K. Bond ends of gaskets together with adhesive or "weld" by other means as recommended by manufacturer to ensure continuous water-tight and air-tight performance. Miter cut and bond ends at corners unless molded corner units are provided.

### 3.2 CURE AND PROTECTION

- A. Cure sealants and caulking compounds in compliance with manufacturer's instructions and recommendations, to obtain high early bond strength, internal cohesive strength, and surface durability. Comply with manufacturer's procedures required for cure and protection of joint sealers during construction period, so that they will be without deterioration or damage, (other than normal wear and weathering), at time of Substantial Completion.

END OF SECTION 07 92 00