

**Section 07101A**  
**ISO-FLEX® SEALANT CONTROL JOINT SYSTEMS**  
**FOR UNTOPPED PRECAST STRUCTURES**

**PART I - GENERAL**

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this section.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. General caulking such as sealant joints around doors, windows, wall louvers, masonry joints, interior caulking, etc., is not included in this section.
- B. Concrete curing, finishing, jointing and repair requirements affect this section.

1.03 QUALITY ASSURANCE

- A. Work under this section shall be performed by an applicator approved by the manufacturer, both having a minimum of five continuous years of experience in this type of work. The manufacturer shall evidence in writing that the applicator designated to perform the work is qualified to install the specified systems.
- B. Prequalification of bidders: Submit proposed subcontractors to the engineer for approval prior to bid. Qualification criteria shall include compliance with 1.03-A above. Specifier retains absolutely the right to reject any applicator or manufacturer submitted.
- C. A site inspection shall be made by the approved applicator prior to commencing installation of the system for purposes of reviewing related conditions affecting performance requirements of this specification.
- D. All products described in this section must be used with adequate ventilation and personal protection. Refer to the Material Safety Data Sheet which accompanies each product shipment for detailed health and safety information prior to use.

1.04 SUBMITTALS

- A. A detailed statement describing the sealant joint systems to be installed, as well as the installation methods to be employed, shall be submitted for approval prior to installation. Literature, details, samples, shop drawings, warranties, etc., shall be included in the submittal as requested.
- B. Manufacturer's written acceptance and approval of the intended system applicator is required.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

- A. Sealants specified under this section shall be a complete system of compatible materials designed to produce traffic-bearing control joint seals as detailed in the drawings. Primers, backer rods, and related miscellaneous materials shall be used as recommended by the manufacturer.
- B. All materials specified herein shall be unmodified polyurethanes containing no adulterants and shall meet the standards defined in federal specification ASTM C920, Type M or S, Class 25, self-leveling and non-sag sealants.
- C. The following materials are approved for usage under this section:  
  
"Iso-Flex 880 GB" (self-leveling) and "Iso-Flex 881" (non-sag) by Master Builders, Inc., 23700 Chagrin Blvd., Cleveland, Ohio 44122 (216-831-5500).

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**Note to Specifier:** The products listed herein have similar physical properties and are used interchangeably depending on the nature of specific joint conditions within a project.

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## PART 3 - EXECUTION

### 3.01 GENERAL

- A. All work shall be installed in strict accordance with system manufacturer's recommendations employing trained installers utilizing proper tools and equipment and working under the direct supervision of a technically competent and experienced supervisor.
- B. All surfaces related to work under this section shall be inspected by the approved applicator prior to commencing work. Any conditions discovered which render the substrate unsuitable shall be reported and satisfactorily corrected prior to installation of the control joint sealant system.
- C. Coordinate and verify that related work items meet the following requirements:
  - 1. All surfaces shall be clean, dry and of sound substrate at time of application.
  - 2. Concrete surface finishes shall be subject to approval of the approved applicator.
  - 3. Concrete surfaces shall be water cured, or cured with a compatible curing compound as recommended by the manufacturer.
  - 4. Concrete surfaces shall have been cured for an acceptable period as recommended by the manufacturer.
- D. Environmental Conditions
  - 1. System application shall be at temperatures ranging from 40°F to 110°F as recommended by the control joint sealant manufacturer.
  - 2. The deck surface shall be dry at time of application according to ASTM D4263, Standard Test Method for Indicating Moisture in Concrete.
  - 3. Provide adequate ventilation in accordance with system manufacturer's recommendations during installation of the control joint sealant system.

### 3.02 PREPARATION

- A. Follow system manufacturer's recommendations for cleaning and preparation of joints. Tooled control joints provided by the Goldblatt Groover #06-314-M7 shall be prepared by grinding with an abrasive wheel prior to sealing. Other joints shall be prepared as recommended by the system manufacturer.
- B. Work shall not proceed until unsatisfactory conditions have been corrected in a manner acceptable to the applicator.

### 3.03 INSTALLATION

- A. Installation procedures shall be in accordance with the system manufacturer's recommendations. All sealants are to be applied to clean, dry, sound substrates.
- B. Select and install a test section prior to general application to verify adhesion and acceptable appearance.
- C. Backer rods, bond breakers and primers shall be used in accordance with system manufacturer's recommendations.
- D. Care shall be taken to completely fill joints without overflowing the joint or smearing adjacent surfaces.
- E. Exposed joints shall be filled with sealant and tooled to a slightly recessed configuration to avoid direct contact with wheel traffic.
- F. Protect all work areas from traffic until fully cured.

**Master Builders, Inc.**  
**United States**

23700 Chagrin Boulevard  
Cleveland, Ohio 44122-5554  
(800) MBT-9990  
Fax: (216) 831-6910

**Canada**

3637 Weston Road  
Toronto, Ontario M9L 1W1  
(800) 387-5862  
Fax: (416) 741-7925

**Mexico**

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, México  
011-525-557-5544  
Fax: 011-525-395-7903