



**SECTION 03 15 00**  
**CONSTRUCTION JOINTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. CONTRACTOR shall supply all labor, tools, equipment and material for the preparation of construction joints in concrete in accordance with these SPECIFICATIONS and as shown in the DRAWINGS.

**1.02 RELATED SECTIONS**

- A. The following is a list of SPECIFICATIONS which may be related to this section:
1. Section 03 11 00, Concrete Forming.
  2. Section 03 15 13, Waterstops.
  3. Section 03 21 00, Reinforcing Steel.
  4. Section 03 31 00, Structural Concrete.
  5. Section 03 60 00, Grouting.
  6. Section 32 16 00, Sidewalks, Curbs, and Gutters.

**1.03 REFERENCES**

- A. The following is a list of standards which may be referenced in this section:
1. American Concrete Institute (ACI):
    - a. 117, Specifications for Tolerances for Concrete Construction and Materials.
    - b. 301, Specifications for Structural Concrete.
    - c. 302, Guide for Concrete Floor and Slab Construction.
    - d. 318, Building Code Requirements for Structural Concrete.
  2. ASTM International (ASTM): C1059, Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.

**1.04 SUBMITTALS**

- A. Provide Product Data for the Following: Bonding Agent.



## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Epoxy Bonding Agent:
  - 1. Master Builders; Concessive Liquid (LPL).
  - 2. Master Builders; Concessive Standard Liquid.
- B. Concrete and Closure Grout Placement: In accordance with Section 03 60 00, Grouting.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. ENGINEER shall review the preparation of all construction joints prior to concrete and grout closure placements. It is the responsibility of CONTRACTOR to notify ENGINEER of these activities. If joint placement is performed without ENGINEER's presence or approval, the WORK may be deemed unacceptable and non-conforming to these SPECIFICATIONS. If ENGINEER determines that construction review of a particular activity is unnecessary, ENGINEER will provide direction to CONTRACTOR to proceed with that particular activity without construction review.

### **3.02 SURFACE PREPARATION**

- A. The surface of concrete construction joints shall be clean of all materials that inhibit bond. Materials such as curing compounds, laitance, saw dust, wood, dirt, polyethylene, pipe tape coating, and paper shall be removed. Concrete shall be roughened to produce a surface texture of plus or minus one-sixteenth ( $\pm 1/16$ ) inch. Concrete surfaces shall be wetted with clean potable water and standing water removed immediately before new concrete or closure grout is placed. Unless otherwise called out in the DRAWINGS, a bonding agent shall be used prior to placing the concrete or grout.

### **3.03 PIPE GROUT CLOSURE SECTIONS**

- A. Pipe Surface Preparation: Unless otherwise detailed in DRAWINGS, all pipes penetrating concrete sections such as wall and floor slabs shall have all coatings and other materials that can inhibit bond completely removed from the portion of the pipe to be in contact with the concrete or slab closure grout.
- B. Ground Surface Preparation: The ground surface at joints such as pipe/slab closures shall be smooth and properly graded and compacted. All debris such as Styrofoam, paper, polyethylene and wood shall be removed. The ground surface shall be dampened and prepared to prevent the inclusion of dirt, pieces of aggregate or balls of soil in the concrete or grout.



### 3.04 CONCRETE AND CLOSURE GROUT PLACEMENT

- A. Mixing, surface preparation in addition to that prescribed above, placement, and curing of grout at pipe closure joints shall be performed in strict accordance with Section 03 60 00, Grouting, and when a proprietary grout is specified, with the grout manufacturer's directions. Special care shall be taken to ensure that the grout is thoroughly and properly consolidated at waterstops, pipe weep rings, and existing concrete surfaces. An appropriate capacity vibrator shall be used when necessary or required by the manufacturer to properly consolidate the grout.

**END OF SECTION**



Revised 08/2015

**THIS PAGE INTENTIONALLY LEFT BLANK**