

## **SECTION 036000 – GROUTING**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification sections, apply to this section.

#### **1.2 SUMMARY**

- A. This section includes the furnishing and placement of cementitious grout for drilled-in anchor bolts, drilled-in reinforcing dowels, and the like.

#### **1.3 REFERENCES**

- A. Except as herein specified or as indicated on Drawings, the work of this section shall comply with the following:
  - 1. ASTM:
    - a. C939 - Flow of Grout for Preplaced Concrete (Flow Cone Method).
    - b. C1107 - Packaged Dry Hydraulic-Cement Grout (Nonshrink).
    - c. C1181 - Compressive Creep of Chemical-Resistant Polymer Machinery Grouts.
    - d. C1339 - Flowability and Bearing Area of Chemical-Resistant Polymer Machinery Grouts.
  - 2. Corps of Engineers: CRD C621.

#### **1.4 SUBMITTALS**

- A. Product Data or manufacturer's descriptive literature, including surface preparation and installation instructions.
- B. Shop Drawings to include drawing setting locations, templates, and directions for installing anchor bolts and other anchorages.

#### **1.5 QUALITY ASSURANCE**

- A. Use only experienced tradesmen for the work of this section.
- B. Test for flow consistency of 25 to 30 seconds in accordance with ASTM C939 at 30 minutes extended working time at temperature extremes between 45 and 90 degrees F.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Non-metallic shrinkage-resistant grout: Premixed, non-metallic, non-corrosive, non-staining, product containing selected silica sands, portland cement, shrinkage compensating agents, plasticizing and water-reducing agents complying with CRD C621 and ASTM C 1107, Grade B, with minimum compressive strength of 6,000 psi at 28 days:
  - 1. Subject to compliance with requirements, provide one of the following:
    - a. "Supreme Grout", Cormix Inc.
    - b. "Sure Grip Grout", Dayton Superior.
    - c. "Euco N.S. ", Euclid Chemical Co.
    - d. "Crystex", L&M Construction Chemicals, Inc.
    - e. "Masterflow 713", Master Builders.
    - f. "Sealtight 588 Grout", W.R. Meadows.
    - g. "Set Non-Shrink", Set Products, Inc.
    - h. "Five Star Grout", U.S. Grout Corp.

## PART 3 - EXECUTION

### 3.1 MIXING GROUT

- A. Add only potable water and use mechanical mixer for minimum of 3 minutes.
- B. Maintain proper curing temperature between 45 and 90 degrees F.
- C. Comply with manufacturer's instructions.

### 3.2 INSTALLATION

- A. Blow or vacuum out loose particles and dust.
- B. Dampen walls of the hole with a swab to ensure good bonding dust free surface.
- C. Pour or place small amount of grout in hole and work bolt or dowel in and out to eliminate air pockets.
- D. Fill balance of hole.
- E. Allow to cure.

END OF SECTION 036000