

SECTION 03600

GROUT

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope

1. Grouting of equipment baseplates
2. Patching cavities in concrete
3. Other grouting specified or indicated on Drawings

B. Additional Requirements Specified Elsewhere

1. Section 01340: Shop Drawings, Product Data and Samples
2. Section 01600: Materials and Equipment

C. Related Requirements Specified Elsewhere

1. Section 03300: Cast-in-Place Concrete
2. Section 03410: Precast Concrete
3. Section 03420: Structural Precast Concrete
4. Section 05501: Anchor Bolts and Expansion Anchors

1.2 QUALITY ASSURANCE

A. Applicable Standards

1. Corps of Engineering Specification CRD-C 621 - Specification for Non-Shrink Grout

PART 2 - PRODUCTS

2.1 MATERIALS

A. Non-Shrinking Non-Metallic Grout: Master Builders "Special LL-713 Grout," Sauereisen Cements "F-100 Level Fill Grout," U.S. Grout "Five Star Grout," The Upco Corp "Upcon," or equivalent

B. Epoxy Grout

1. Adhesive: Ceilcote "HT648 Grout," Exxon Chem Co. "Escoweld 2505," Sika "Sikadur Hi-Mod," or equivalent
2. Aggregate: Ceilcote "HT648," Exxon Chem Co. "Escoweld 2510," Sika "Colma Quartzite Aggregate," or equivalent

C. Water: Clean and free from deleterious substances

2.2 MANUFACTURE

- A. Non-Metallic Non-Shrinking Grout: Factory pre-mixed requiring only water addition in the field
- B. Epoxy Grout
 - 1. Three component epoxy resin system
 - a. Two liquid epoxy components
 - b. One inert aggregate filler component
 - 2. Each component furnished in separate package for mixing at jobsite

PART 3 - EXECUTION

3.1 PREPARATION

- A. Non-Shrinking Non-Metallic Grout
 - 1. Clean concrete surface to receive grout
 - 2. Saturate concrete with water for 24 hours prior to grouting
- B. Epoxy Grout: Apply only to clean, dry, sound surface

3.2 APPLICATION

- A. Non-Shrinking Non-Metallic Grout
 - 1. Mix in a mechanical mixer
 - 2. Use no more water than necessary to produce flowable grout
 - 3. Place in accordance with manufacturer's instructions
 - 4. Completely fill all spaces and cavities below the top of baseplates
 - 5. Provide forms where baseplates and bedplates do not confine grout
 - 6. Where exposed to view finish grout edges smooth
 - 7. Except where a slope is indicated on the Drawings, finish edges flush at the baseplate, bedplate, member or piece of equipment
 - 8. Protect against rapid moisture loss by covering with wet rags or polyethylene sheets
 - 9. Wet cure grout for 7 days, minimum
- B. Epoxy Grout
 - 1. Mix and place in accordance with manufacturer's instructions
 - 2. Completely fill all cavities and spaces around dowels and anchors without voids
 - 3. Grout base and bedplates as specified for non-shrinking, non-metallic grout
 - 4. Obtain manufacturer's field technical assistance as required to ensure proper placement

3.3 SCHEDULE

- A. Non-Shrinking Non-Metallic Grout: General use
- B. Epoxy Grout
 - 1. Patching cavities in concrete
 - 2. Grouting of dowels and anchor bolts into concrete
 - 3. Other uses indicated on Drawings

END OF SECTION