SECTION 04 0516

MASONRY GROUTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Grout for masonry and pre-cast structural slabs.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 04 2000 - Unit Masonry.

1.2 REFERENCES

A. ASTM International (ASTM):
1. C91 - Standard Specification for Masonry Cement.
2. C150 - Standard Specification for Portland Cement.
3. C207 - Standard Specification for Hydrated Lime for Masonry Purposes.
4. C404 - Standard Specification for Aggregates for Masonry Grout.
5. C476 - Standard Specification for Mortar and Grout for Reinforced Masonry.

B. The Masonry Society (TMS):
1. 402 - Building Code for Masonry Structures.
2. 602 - Specification for Masonry Structures.

1.3 SUBMITTALS

A. Quality Control Submittals:
1. Test reports: Indicating grout compliance with ASTM C476.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with TMS 402 and 602.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver cement and lime in manufacturer's original, unopened packages or containers.

B. Protect materials from moisture absorption and damage; reject damaged containers.

C. Store aggregate to prevent inclusion of foreign matter.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers - Cement:
1. Essroc Cement Corp. (www.essroc.com)
2. LaFarge North America, Inc. (www.lafarge-na.com)
3. Lehigh Cement Co. (www.lehighcement.com)
4. Texas Industries, Inc. (www.txi.com)
5. Or equal

B. Acceptable Manufacturers - Lime:
1. Chemical Lime Co. (www.chemicallime.com)

2. Graymont Dolime (OH) Inc. (www.graymont-oh.com)
3. Rockwell Lime Co. (www.rockwelllime.com)
4. Or equal

2.2 MATERIALS

A. Portland Cement: ASTM C150, Type I.

B. Aggregate: ASTM C404.

C. Lime: ASTM C207, Type S.

D. Water: Clean and free from oils, acids, alkalies, organic matter, and other substances in amounts deleterious to mortar or metals in masonry.

2.3 MIXES

A. Grout Mix:
1. ASTM C476, fine grout.
2. Compressive strength: Minimum 5000 psi at 28 days.
3. Slump: 7 to 8 inches.

2.4 MIXING

A. Mix grout in accordance with ASTM C476.

B. Thoroughly mix ingredients in quantities needed for immediate use.

C. Mix dry ingredients mechanically until uniformly distributed; add water to achieve workable consistency.

D. Discard lumpy, caked, frozen, and hardened mixes.

E. Use grout within 2-1/2 hours after initial mixing at ambient temperatures below 80 degrees F and within 1-1/2 hours after initial mixing at ambient temperatures over 80 degrees F.

F. Do not add accelerators, retarders, water repellents, antifreeze compounds, or other additives without Architect's approval.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Follow requirements specified in referenced sections.

END OF SECTION

©2009, SpexPlus™
Dec 2009