

SECTION 04 05 10
MASONRY CLEANING

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Project information:
 - 1. Name of proposed product and manufacturer.
 - 2. Certification that the proposed product(s) are compatible for materials on subject project.
- B. LEED Information:
 - 1. LEED Credits MR 5.1 and 5.2, Regional Materials: For products and materials required to comply with requirements for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.

1.2 JOB CONDITIONS

- A. Protect adjacent surfaces and materials below from damage due to cleaning operations.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Acceptable manufacturers:
 - 1. Cleaners:
 - a. Base:
 - 1) ProSoCo.
 - b. Optional:
 - 1) L&M Construction Products.

2.2 PRODUCTS

- A. General:
 - 1. Do not use products which are “not recommended” by manufacturer of material to be cleaned.
- B. Concrete Masonry (CMU) Cleaners:
 - 1. General:
 - a. Clean all CMU which will remain exposed to view (including CMU walls which are scheduled for painting).
 - 2. Lightweight and Normal Weight CMU:
 - a. Base Product: “Sure Klean Custom Masonry Cleaner” by ProSoCo.
- C. Cast-in-Place Concrete Cleaner:
 - 1. General:
 - a. Clean all Cast-in-Place concrete walls which will remain exposed to view (including CIP walls which are scheduled for painting).
 - b. Clean with most effective products which are appropriate for texture(s) and color(s) specified.
 - 2. Smooth Textures:
 - a. Base Product: “Sure Klean Burnished Custom Masonry Cleaner” or “Light-duty Concrete Cleaner” both by ProSoCo.

- D. Architectural Precast Concrete (APC) Cleaner:
 - 1. General:
 - a. Clean with most effective products which are appropriate for texture(s) and color(s) specified.
 - 2. Smooth Textures:
 - a. Base Product: "Sure Klean Burnished Custom Masonry Cleaner" or "Light-duty Concrete Cleaner" both by ProSoCo.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine surfaces to be cleaned.
 - 1. If necessary point with mortar.
- B. Waiting Time before cleaning:
 - 1. Mortar Types N and O: Allow mortar to cure for 14 to 28 days prior to cleaning.
 - 2. Mortar Types M and S: Allow mortar to cure for 7 to 14 days prior to cleaning.
 - 3. Colored Mortar (all strengths): Allow mortar to fully cure (28 days) prior to cleaning.
- C. Remove excess mortar using wooden paddles and scrapers.
- D. Do not proceed with cleaning until unsatisfactory conditions have been corrected.
- E. Test 4 x 4 FT area of each surface type for compatibility with cleaner, using recommended dilutions, prior to full scale cleaning operations.
- F. Cleaning indicates acceptance of surfaces and responsibility for performance.

3.2 PREPARATION

- A. Protect adjacent surfaces, not scheduled for cleaning.
- B. Prepare surfaces as recommended by manufacturer.

3.3 CLEANING

- A. Clean surfaces as recommended by manufacturer.
- B. Do not use wire brushes.
- C. If metal tools are used, use only tools free of rust.
- D. Thoroughly rinse and pre-soak walls.
- E. Flush loose mortar and dirt from surface.
- F. Wet to prevent "runoff" streaking.
- G. Apply solution using fibered wall washing brush or low-pressure spray.
 - 1. Maximum Pressure: not to exceed 400 PSI.
 - 2. Tip spray angle: Not less than 25 Degrees.
 - 3. Maximum rate of flow: 4 to 6 GPM.
 - 4. Tip shall be held at least 12 IN from surface of masonry.
 - 5. Comply with manufacturer's recommendations, where more restrictive.
- H. Scrape off mortar and re-apply cleaning solution.
- I. After scrubbing, clean thoroughly with low pressure water.
 - 1. Comply with low-pressure spray criteria listed above.

END OF SECTION