

QCV – RETAIL CENTER – CLEAN & SEAL CERTAIN CMU WALLS & CONCRETE WALKWAYS

TULALIP, WASHINGTON

SECTION 042100 – UNIT MASONRY & CONCRETE CLEANING & SEALING

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section includes the cleaning of unit masonry work and cleaning concrete work consisting of the following:
 - 1. Concrete masonry units (CMUs).
 - 2. Cleaning cast-in-place concrete sidewalks, walk-ways and curbs.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of Contract, including General and Special Conditions.
- B. Section 010100 – SCOPE OF WORK.
- C. Section 013400 - SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

1.03 SUBMITTALS

- A. Product Data: For each type of product used.
- B. Material Certificates: For each type of product indicated. Include statements of material properties indicating compliance with requirements including compliance with standards and type designations within standards.

1.04 PROJECT CONDITIONS

- A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not work on frozen substrates.

1.05 QUALITY ASSURANCE

- A. CMU Cleaner: Professional experienced in the type of work required. Test a minimum of 4 ft. by 4ft. area on each type of masonry. Use manufacturer's application instructions. Let the test area dry 3 to 7 days before inspection. Keep test areas available for comparison throughout the cleaning project.
- B. CMU Sealer: Professional experienced in the type of work required. Test a minimum of 4 ft. by 4ft. area on each type of masonry. Use manufacturer's application instructions. Let test area protective treatment cure before inspection. Keep test areas available for comparison throughout the protective treatment project.
- C. Cast-In-Place Concrete Cleaner: Professional experienced in the type of work required. Test a minimum of 4 ft. by 4ft. area on each type of cast-in-place concrete. Use manufacturer's application instructions. Let the test area dry 3 to 7 days before inspection. Keep test areas available for comparison throughout

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the cleaning project.

- D. Cast-In-Place Concrete Sealer: Professional experienced in the type of work required. Test a minimum of 4 ft. by 4ft. area on each type of cast-in-place concrete. Use manufacturer's application instructions. Let test area protective treatment cure before inspection. Keep test areas available for comparison throughout the protective treatment project.

PART 2 – PRODUCTS

2.01 MASONRY CLEANERS

- A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing stains from existing masonry without damaging masonry. Use product approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.
 - 1. Manufacturers:
 - a. Diedrich Technologies, Inc.
 - b. EaCo Chem, Inc.
 - c. ProSoCo, Inc.

2.02 MASONRY SEALERS

- A. Proprietary Water-Based Silane/Siloxane Water Repellent: Manufacturer's standard-strength repellent designed for resisting water intrusion. Use product approved for intended use by repellent manufacturer.
 - 1. Manufacturers:
 - a. Diedrich Technologies, Inc.
 - b. EaCo Chem, Inc.
 - c. ProSoCo, Inc.

2.03 CONCRETE CLEANERS

- A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing stains from exposed concrete surfaces without damaging concrete. Use product approved for intended use by cleaner manufacturer.
 - 1. Manufacturers:
 - a. Diedrich Technologies, Inc.
 - b. EaCo Chem, Inc.
 - c. ProSoCo, Inc.

2.02 CONCRETE SEALERS

- A. Proprietary Water-Based Silane/Siloxane Water Repellent: Manufacturer's standard-strength repellent designed for resisting water intrusion. Use product

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approved for intended use by repellent manufacturer.

1. Manufacturers:
 - a. Diedrich Technologies, Inc.
 - b. EaCo Chem, Inc.
 - c. ProSoCo, Inc.

PART 3 - EXECUTION

3.01 CLEANING

- A. Cleaning Masonry: Clean exposed masonry as follows:
 1. Test cleaning methods on sample masonry wall panel; leave one-half of panel uncleaned for comparison purposes.
 2. Protect adjacent surfaces from contact with cleaner.
 3. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
 4. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.
- B. Cleaning Cast-In-Place Concrete and Curbs: Clean exposed cast-in-place concrete and curbs as follows:
 1. Test cleaning methods on sample concrete panel; leave one-half of panel uncleaned for comparison purposes.
 2. Protect adjacent surfaces from contact with cleaner.
 3. Wet concrete surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.

3.02 SEALING

- A. Seal Masonry: Seal exposed masonry after exposed surfaces have been properly cleaned as follows:
 1. Test sealing methods on sample masonry wall panel; leave one-half of panel unsealed for comparison purposes.
 2. Protect adjacent surfaces from contact with sealer.
 3. Apply sealer to a visibly dry and absorbent surface.
 4. Saturate from the bottom up, creating a 4" to 8" rundown below the spray contact point. Let the first application penetrate for 5 to 10 minutes.
 5. Resaturate while surface still appears moist. Brush out heavy runs or drips

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that don't penetrate.

- B. Seal Cast-In-Place Concrete and Curbs: Seal exposed cast-in-place concrete and curbs after exposed surfaces have been properly cleaned as follows:
 - 1. Test sealing methods on sample concrete panel; leave one-half of panel unsealed for comparison purposes.
 - 2. Protect adjacent surfaces from contact with sealer.
 - 3. Apply sealer to a visibly dry and absorbent surface.
 - 4. Saturate in a single application. Use enough to keep the surface wet for 2 to 3 minutes before penetration.
 - 5. Broom out puddles until they soak in.

3.03 REMOVAL

- A. Contractor shall remove and properly dispose of all temporary protection work upon completion of the Project or as requested by the Construction Manager.

END OF SECTION 042100