



SECTION 09 97 23

CONCRETE AND MASONRY COLOR TREATMENT

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This section is based on the products of Nawkaw Corporation, which is located at:

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**PART 1 GENERAL**

1.1 SECTION INCLUDES

- A. Water Based Stain

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete.
- B. Section 03 11 16.13 - Concrete Form Liners.
- C. Section 03 35 23 - Exposed Aggregate Concrete Finishing.
- D. Section 03 41 16 - Precast Concrete Slabs.
- E. Section 03 45 13 - Faced Architectural Precast Concrete.
- F. Section 03 47 13 - Tilt-Up Concrete.
- G. Section 03 49 00 - Glass-Fiber-Reinforced Concrete.
- H. Section 03 50 00 - Cast Decks and Underlayment.
- I. Section 04 20 00 - Unit Masonry.
- J. Section 04 40 00 - Stone Assemblies.
- K. Section 09 22 00 - Stucco.
- L. Section 09 24 13 - Adobe Finish.

### 1.3 REFERENCES

- A. ASTM C 744 - Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units.
- B. SCAQMDR 1168 - South Coast Air Quality Management District's (SCAQMD) Volatile Organic Compounds (VOC) Rule 1168.

### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Product characteristics.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Installation methods.
- C. Preliminary Samples: To be provided as required for the specific project.
- D. Verification Samples: To be provided on the specific materials to be treated when they are available in plant or on site.
- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: An international manufacturer with a minimum of 20 years of experience in the production of the stains and coatings of type specified.
- B. Installer Qualifications: Installer licensed by Nawkaw to apply the stain products specified and with a minimum of three years documented experience in applying stains and coatings similar in type and scale to this Project.
- C. Environmental Regulations: The masonry stain material to be applied is in compliance with federal, provincial and local environmental Volatile Organic Compounds (VOC) regulations.
- D. Mock-Up: Apply a minimum one square foot sample of each type of color application required.

1. Finish areas designated by Architect.
2. Prepare each sample in an area where it will be exposed to the same conditions as will be present on the building during curing.
3. Samples should be viewed from a minimum distance of 20 feet.
4. Do not proceed with remaining work until color and finish is approved by Architect.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and handle products in accordance with requirements of manufacturer.
- C. Store materials inside if possible, away from open flame. Store in a secure area to avoid tampering and contamination. Water-based materials must be kept from freezing.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

#### 1.8 WARRANTY

- A. At project closeout, provide to Owner or Owner's Representative an executed copy of the manufacturer's standard limited warranty against manufacturing and workmanship defects, outlining its terms, conditions, and exclusions from coverage.

1. Duration: 25 years.

### **PART 2 PRODUCTS**

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Nawkaw Corporation, which is located at: 380 Commerce Blvd; Athens, GA 30606; Toll Free Tel: 866-462-9529; Tel: 706-355-3217; Fax: 706-355-9199; Email: [info@nawkaw.com](mailto:info@nawkaw.com); Web: <http://www.nawkaw.com/>
- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

## 2.2 WATER-BASED STAIN

- A. NawTone (Formerly NECT-90):
1. General: NawTone: high-quality, water-based, highly permeable acrylic stain. Mold, mildew, UV and weather resistant.
  2. Properties:
    - Viscosity: (72° F) 70°-90° KU
    - pH: 8.5-9.5
    - Finish: flat
    - Nonflammable (ASN/ZS 1530.3-1999)
    - VOC: < 5 g/L (SCAQMDR 1168)
    - Abrasion Resistance: excellent
    - Freeze/Thaw Test (ASTM C216-86): exceeded
    - Salt Attack Resistance (AS/NZS 4456.10): no blisters
    - Water Vapor Transmission (ASTM E96-05) 0.337 g/hr m<sup>2</sup>
    - Water Vapor Permeance (ASTM E96-05) 6.6x10<sup>-8</sup> g/Pa s m<sup>2</sup>
    - UV Resistant–Accelerated Weathering (ASTM G154:2000, ASTM G53-88, D2244-89) 2000 hrs: excellent
  3. Finish:
    - a. Color: To match existing substrate (masonry or concrete).
    - b. Color: Formulate to color as selected by the Owner or Architect.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify that new masonry and concrete have cured at least 21 days prior to applying NawTone.
- C. Verify that surfaces being color treated with NawTone have a neutral pH, are clean, dry and free of efflorescence.
- D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Clean surfaces thoroughly prior to installation. Allow surfaces to dry completely before applying coating.
- C. Verify that walls, masonry, concrete, stucco, block split faced/fluted and mortar that may have been treated with any form of chemical/acid wash are neutralized.
- D. Treat alkali or efflorescence with proper neutralizing compounds as recommended by masonry supplier before stain application.
- E. Before application, verify that the masonry walls have a neutral pH.
- F. Before application, verify that surface to be treated is clean, dry and contains no frozen water.
- G. Mix products as recommended immediately prior to application.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Apply stain using airless spray pump to help control airborne particles or overspray. If site conditions prohibit spray application, apply by hand; utilizing brushes and rollers.
- C. Do not proceed with work when ambient temperatures are less than 25 degrees F (-4 degrees C) or greater than 110 degrees F (43 degrees C).
- D. Allow manufacturer's specified drying time for each coat before applying next coat (if required).
- E. Verify color consistency. Recoat areas where blotches, blemishes or imperfections are present.

### 3.4 FIELD QUALITY CONTROL

- A. Verify color consistency. Recoat any areas that are unacceptable.

### 3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Protect prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels as required.

- C. Protect shrubs, metal, wood trim, glass, asphalt and other building hardware during application from overspray.
- D. Do not permit mist (if spraying) or liquid to drift onto surrounding properties or parking lots.
- E. Touch-up, repair or replace damaged products before substantial completion.

END OF SECTION