

Terracotta Finish

Division 4: Masonry

Water based clear sealer used to replicate glaze on terracotta or fire skin on brick. Available in gloss and matte finish.

SECTION 040321.21 – Terra Cotta Conservation Treatment

PART 1 GENERAL

1.1 SUMMARY

Provide labor, materials, equipment and supervision necessary to complete the application of product to existing substrate.

1.2 SYSTEM DESCRIPTION

The products shall meet or exceed the following performance requirements:

Base		Aqueous
Polymer		Carboxylated styrene acrylic
pH		Greater than 9.5
Percent solids by weight		53 percent
Flash point	ASTM D56	150 degrees F Seta cc
Volatile organic content – VOC	ASTM D3960	58 grams per liter
Density of liquid coatings	ASTM D1475	8.0 pounds per gallon
Water vapor transmission	ASTM D1653	11 perms – 1 coat
	wet cup	
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect
Water penetration and leakage	ASTM E514	100 percent reduction
Freeze/thaw stability	ASTM C932	Pass – 5 cycles at 15 degrees F
Heat stability	ASTM C932	Pass – 4 weeks at 120 degrees F
Gloss finish – terracotta tile	ASTM D523	85 degrees F untreated 1.5 – treated 11.0 60 degrees F untreated 1.5 – treated 11.0

1.3 SUBMITTALS

- A. Manufacturer’s current product data bulletin.
- B. The trained applicator shall prepare a test area on the structure as a submittal for approval of proper application and adhesion.
- C. The trained applicator shall submit to the specifier a list of five projects that he has completed within the last five years, exhibiting the applicator’s skills. The list shall include project name, location, and description of work and completion date.

1.4 QUALITY ASSURANCE

Products shall be installed by a trained applicator with a minimum of five years’ experience and meet the requirements of the specifier.

1.5 DELIVERY, STORAGE & HANDLING

- A. Deliver all products in original labeled, sealed, and undamaged containers.
- B. Store all products in accordance with manufacturer's printed instructions.
- C. Handle products in accordance with manufacturer's printed instructions.

1.6 PROJECT/SITE CONDITIONS

All products shall be applied at substrate and ambient temperatures of 45 degrees F or above. A minimum temperature of 45 degrees F shall be maintained 24 hours after completion of work. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces. Do not apply during strong winds.

1.7 SCHEDULING

The work requires close coordination with related sections and trades.

PART 2 PRODUCTS

2.1 MANUFACTURERS

The following manufacturers are approved for the project.
Conproco

2.2 MATERIALS

Terracotta Finish - a spray applied, single component, water based clear sealer. Available in gloss and matte finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Installation shall be performed strictly in accordance with manufacturer's current product data bulletin.
- B. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- C. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and application of materials.

3.2 SURFACE PREPARATION

- A. Remove loose and deteriorated material, laitance, dirt, dust, oil and any contaminants that will inhibit proper adhesion.
- B. If acid washing is used to prepare substrate, neutralize with 1 part ammonia to 3 parts water solution flooded over the surface. Residual acid in the substrate will cause Terracotta Finish to form a milky film instead of a clear finish. If this occurs, the material must be removed.
- C. Surface must be dry at time of application to allow maximum penetration.

D. Protect adjacent areas from overspray.

3.3 APPLICATION

A. Priming

Priming is not necessary under normal circumstances.

B. Mixing

Stir container.

C. Application

1. Always apply a test area to determine suitability of application.
2. Brush or roll material onto substrate in a uniform 6 mils. coat.
3. Brush out ponded material before surrounding area dries.
4. Two coats are recommended for complete protection.
5. Allow the first coat to cure 3 to 4 hours at 72 degrees F; 7 to 8 hours at 50 to 70 degrees F before applying additional coats.
6. Each additional coat of Terracotta Gloss Finish will increase the intensity of gloss.

D. Curing

Protect from moisture for 24 hours at 72 degrees F. Material is fully cured in 3 days.

3.4 CLEANING

- A. Material left over at the job site by the approved applicator shall be removed.
- B. Clean tools, equipment and adjacent areas with water before material dries.

END OF SECTION 040321.21