

Stone Repair

Section 04520 or 04 01 40.91
Surface Repair to Stone

MIMIC TR

PART I: GENERAL

1.01 DESCRIPTION

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

1.02 QUALITY ASSURANCE

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

1.03 SUBMITTALS

- A. Manufacturer's current product data bulletin.
- B. The trained applicator shall prepare a test panel of the repair installed on the actual 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.

1.04 PRODUCT DELIVERY, STORAGE & HANDLING

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

1.05 JOB CONDITIONS

All products shall be applied at substrate and ambient temperatures of 45°F or above. A minimum temperature of 45°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.

1.06 COORDINATION & SCHEDULING

The work requires close coordination with related sections and trades.

PART II: PRODUCTS

2.01 MANUFACTURERS

The following manufacturers are approved for the project.

Conproco Corporation

2.02 MATERIALS

MIMIC TR: A brush applied, polymer modified, cementitious repair mortar for thin repairs to natural and cast stone.

2.03 PERFORMANCE CHARACTERISTICS

General Physical Properties: The products shall meet or exceed the following performance standards:

Physical state and appearance		Dry, pigmented powder and liquid		
Base				
Powder		Portland cement		
Liquid admix		Acrylic polymer		
pH	Wet Mix	>12		
Liquid/dry material ratio		0.33		
Dry bulk density	ASTM C188	93 lbs./ft. ³		
Density	Hardened	118 lbs./ft. ³		
Setting time @ 1/8 inch thickness	ASTM C953	Initial 15 minutes – Final 30 minutes		
Durometer hardness	ASTM D2240	70		
Water vapor transmission	ASTM E96	5.1 perms		
Accelerated weathering	ASTM G154	2000 hours – excellent – no effect		
		7 Days	14 Days	28 Days
Compressive strength – psi	ASTM C109	4000	5100	6200
Tensile strength – psi	ASTM C307	200	250	350

PART III: EXECUTION

3.01 GENERAL

- 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.

3.02 SURFACE PREPARATION

- A. Remove loose and deteriorated material, laitance, dirt, dust, oil, and any surface contaminants that will inhibit proper bond.
- B. Apply Conpro Start where a consolidant is of benefit.
- C. Pre-treat static cracks and voids with MIMIC TR.
- D. Saturate substrate with clean water, (saturated surface dry/SSD).
- E. Mechanically prepare surface to be open-pored and textured (CP 3). Refer to ICRI Surface Preparation Guide 03732 for more information.

3.03 MIXING

- A. Mechanically mix using a low speed drill (400 – 600 rpm) and mixing paddle.
- B. Thoroughly shake MIMIC TR Admix to disperse the pigment.
- C. Pour all of the MIMIC TR Admix into a clean mixing vessel and slowly add all of the powder.
- D. Mix continuously for 3 minutes to a uniform, lump-free consistency.

- E. Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- F. Do not over mix, as this will entrain excess air.
- G. Do not re-temper.

3.04 APPLICATION

- A. At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- B. Apply material with a stiff bristle brush or sponge float.
- C. Work material into substrate to promote proper adhesion.
- D. Coat individual stones (not continuous over mortar joints) a maximum thickness of 1/16 inch.
- E. Finish with a sponge float or trowel.
- F. Do not overwork the finish.

3.05 CURING

Protect repair from direct sunlight, wind, precipitation and frost during curing period.

3.06 JOB SITE CLEANUP

- A. Material left over at the job site by the approved applicator shall be removed.
- B. All adjacent surfaces and materials shall be cleaned.
- C. Cured material must be removed mechanically.

*****END OF SECTION*****



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