

# Suggested MATCRETE Specifications

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## 1.00 GENERAL

### 1.01 Description and Uses

- a. MATCRETE Decorative Concrete Stamps are a system of pattern matched tools used to texture the surface of a cast-in-place concrete slab. Combining the structural strength and wear resistance of concrete with the look of other paving materials such as brick, cobblestone, slate, stone, tile and wood. They create natural appearing, low-maintenance, textured surfaces in a wide variety of imprinting patterns. A surface imprinted with MATCRETE Decorative Concrete Stamps manipulate light and shadow to create pedestrian and vehicular traffic areas that are attractive and unique.

### 1.02 Related Work - to be completed by a licensed contractor.

- a. Preparation work, including sub-grade preparation, finish grading, construction formwork, placing and setting screeds, and furnishing and placement of reinforcement shall be done by a licensed contractor.
- b. Provide and place concrete.
- c. For pedestrian and traffic applications, provide and apply DUSTONE Color Hardener.
- d. Provide and apply all MATCRETE Antique Release Agent or MATCRETE Liquid Release Agent. Antique Release Agent is a dry powdered color agent used to facilitate release of the imprinting tools from the concrete surface and to provide moderate color variations to the textured surface. Liquid Release Agent is a colorless bond breaker used to facilitate release of the imprinting tools from the concrete surface.
- e. Provide and apply MATCRETE Decorative Concrete Stamps.
- f. Provide and apply sealer.
- g. Outside edges of imprinted slabs shall be left uncolored unless otherwise specified in drawings.

### 1.03 Quality Assurance

- a. The contractor shall provide a job site sample (referee sample) of 25 square feet minimum to be approved by the architect/engineer prior to the start of construction. Sample shall be protected against damage until final approval from the architect/engineer.

## 2.00 PRODUCTS AND MATERIALS

### 2.01 Concrete Mix Design

- a. The concrete shall have a minimum comprehensive strength of 3,000 psi in non-freeze areas, 3,500 psi in moderate freeze-thaw areas and 4,000 psi in severe freeze-thaw areas. Portland cement shall conform to ASTM C 150 Type I, II or V, depending on soil conditions. Aggregates shall conform to ASTM C 33. Mixing water shall be fresh, clean and potable. In freeze-thaw areas only, an air-entraining admixture complying to ASTM C 260 shall be used to achieve an entrained air content for the particular mix used in accordance with the published recommendations of the Portland Cement Association and the American Concrete Institute. No admixtures containing calcium chloride shall be permitted.

### 2.02 Coloring, Imprinting and Sealing Materials

- a. DUSTONE Color Hardener: The concrete shall be colored with the following DUSTONE Color Hardener color(s):  

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- b. MATCRETE Release Agent: The following MATCRETE Liquid Release Agent or MATCRETE Antique Release Agent color(s) shall be applied to all concrete surfaces to be and textured:  

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- c. Pattern: The following MATCRETE pattern shall be used:  

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All imprinting tools used in the execution of this project shall be manufactured by MATCRETE Inc..

- d. (Optional) Reinforcement: All imprinted concrete slabs shall conform to the guidelines and recommendations of the American Concrete Institute for reinforcement of cast-in-place concrete slabs.
- e. (Optional) Curing: MATCRETE imprinted slabs do not require membrane or mechanical curing. It is recommended to allow 28 days for the concrete slab no independently cure.
- f. Sealer: All imprinted concrete shall be sealed in accordance with manufacturer's recommendations.

## 3.00 EXECUTION

### 3.01 Installation Procedures

- a. The area to receive imprinted concrete shall have the sub-grade prepared and compacted as required by local governing authority and conditions.
- b. The formwork shall be installed in accordance with the drawings. The slab thickness shall be consistent with that of ordinary concrete slabs under the same conditions. (Note to specifier: Imprinted concrete is most often a 4" thick or greater monolithic slab on grade.)
- c. Provide reinforcement as specified.
- d. Control joints and/or expansion joints shall be provided in accordance with the drawings and the guidelines established by the American Concrete Institute. As with any concrete slab, imprinted concrete usually contains construction joints, control joints and expansion joints. The contractor shall advise and work with the architect/engineer to determine the best location for these joints to minimize the visibility of the joints and to minimize unsightly cracking.
- e. The concrete shall be placed and screeded to the finished grade, and floated to a uniform surface using standard finishing techniques.
- f. DUSTONE Color Hardener shall be applied evenly to the surface of the fresh concrete by the dry-shake method using a minimum of 60 pounds per 100 square feet. It shall be applied in two or more shakes, floated after each shake and troweled only after the final topping.

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- g. DUSTONE Antique Release Agent and/or MATCRETE Liquid Release Agent shall be applied evenly to the troweled surface prior to imprinting. ( Note to the specifier: This product should be specified only if slab is imprinted with MATCRETE Decorative Concrete Stamps.)
- h. While the concrete is still in its plastic stage of set, the MATCRETE Decorative Concrete Stamps shall be applied to the surface.
- i. After the curing period, the surface of the slab shall be sealed.

## **CERTIFICATION**

All materials manufactured by MATCRETE Inc. are warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over their use, no warranty, expressed, or implied is made as to the effects of such use. Matcrete Inc.'s obligation under this warranty shall be limited to refunding the purchase price of that portion of material proven to be defective.

Contact your contractor for available warranties on workmanship. MATCRETE Inc. makes no warranty, expressed or implied, as to the quality of the workmanship by contractors.

## **MAINTENANCE**

All installations should be regularly maintained by a licensed contractor in order to maintain a top quality appearance. Every 12 to 36 months, installations should be inspected by a licensed contractor, and should be cleaned and resealed as required by volume and intensity of traffic.



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IMPORTANT NOTICE: This specification guideline supersedes all MATCRETE specifications published prior to February 2006.