

SECTION 09440

PLASTIC MATRIX TERRAZZO

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Epoxy matrix terrazzo floor, border and base.
- B. Divider strips and recessed mat frames.

1.02 RELATED REQUIREMENTS

- A. Section 03300 - Cast-in-Place Concrete: Concrete subfloor with wood float finish.
- B. Section 12486 - Floor Mats: Product requirements for recessed floor mat frames installed under this section.

1.03 REFERENCE STANDARDS

- A. ASTM C 150 - Standard Specification for Portland Cement; 2007.

1.04 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for divider strips, control joint strips, expansion joints, and sealer; include printed copy of current NTMA recommendations for type of terrazzo involved.
- C. Shop Drawings: Indicate divider strip and control joint layout, and details of adjacent components.
- D. Cleaning and Maintenance Data: Include procedures for stain removal, stripping, and sealing.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store resin materials in a dry, secure area.
- B. Maintain minimum temperature of 55 degrees F.
- C. Keep products away from fire or open flame.

1.06 FIELD CONDITIONS

- A. Do not install terrazzo when temperature is below 50 degrees F or above 90 degrees F.
- B. Maintain temperature within specified range 24 hours before, during, and 72 hours after installation of flooring.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Plastic Matrix Terrazzo:
 - 1. Sherwin-William Company/General Polymers: www.generalpolymers.com.
 - 2. Dexotex: www.dexotex.com.
 - 3. Selby: www.buildingsystems.basf.com.
 - 4. Substitutions: See Section 01600 - Product Requirements.

2.02 PLASTIC MATRIX TERRAZZO

- A. Floors: Epoxy matrix, 1/4 inch thick.
 - 1. Matrix Color: As selected.
 - 2. Aggregate Color: As selected.

3. Aggregate Size: No. 0-1.
- B. Base: Same type and thickness as floors.
 1. Matrix Color: As selected.
 2. Aggregate Color: As selected.
 3. Aggregate Size: No. 0-1.

2.03 MATERIALS

- A. Epoxy Matrix: Two component resin and epoxy hardener with mineral filler and color pigment, non-volatile, thermo-setting.
- B. Aggregate: Crushed marble, size in accordance with NTMA Plate of standard gradation and uniform coloration.

2.04 ACCESSORIES

- A. Divider Strips: 1/8 inch thick zinc exposed top strip, zinc coated steel concealed bottom strip, with anchoring features.
- B. Divider Strip Height: To suit thickness of terrazzo topping, with allowance for grinding.
- C. Sealer: Colorless, non-yellowing, penetrating liquid type to completely seal matrix surface; not detrimental to terrazzo components.
- D. Wood Subfloor Joint Tape: Cloth type.
- E. Subfloor Filler: Latex type.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive terrazzo.
- B. Verify that concrete sub-floor surfaces are ready for terrazzo installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by terrazzo materials manufacturer.

3.02 PREPARATION

- A. Clean substrate of foreign matter.
- B. Prepare wood subfloor, tape joints, and apply subfloor joint filler.

3.03 INSTALLATION - ACCESSORIES

- A. Install divider and control joint strips straight and level.
- B. Install recessed floor mat frames.

3.04 APPLICATION - TERRAZZO

- A. Place terrazzo mix over prepared substrate to thickness indicated.
- B. Flush Cored Base: Bond topping to wall. Provide 4" typical & 6" in Restrooms.

3.05 CURING

- A. Cure terrazzo topping by sheet polyethylene curing method.
- B. Close area to allow undisturbed curing.

3.06 FINISHING

- A. Finish terrazzo to NTMA requirements.
- B. Grind terrazzo surfaces with power disc machine; sequence with coarse to fine grit abrasive, using a wet method.
- C. Apply patch mix to match mortar over ground surface to fill honeycomb exposed during grinding.
- D. Remove patch coat by grinding, using a fine grit abrasive.

3.07 CLEANING

- A. Immediately after terrazzo has dried, apply sealer in accordance with manufacturer's instructions.
- B. Seal and polish surfaces, in accordance with manufacturer's instructions.

3.08 PROTECTION

- A. Do not permit construction traffic over finished terrazzo surfaces.

END OF SECTION