

## POLYACRYLATE MATRIX TERRAZZO

### PART 1 – GENERAL

#### 1.01 SUMMARY

- A. ½" Polyacrylate Matrix Terrazzo
- A. Work included in this Section
  - 1. ½" Polyacrylate Matrix Terrazzo.
  - 2. Flexible crack isolation membrane.
  - 3. Compatible membrane waterproofing beneath Terrazzo flooring system.
- B. Related work in other Sections
  - 1. Furnish and installation of concrete slab with moisture vapor barrier.
  - 2. Furnish and installation of wood sub-floor over wood joists.
  - 3. Furnish and placement of floor drains, plumbing fixtures, electrical fixtures
  - 4. Joint sealants installed with terrazzo.
  - 5. Sufficient water, temporary heat and light, and adequate electric power connected with outlets within 100 feet of work area.

#### 1.02 QUALITY ASSURANCE

- A. Acceptable suppliers
  - 1. Suppliers shall be Associate members of the NTMA and shall supply materials in accordance with the standards and specification of the NTMA.
  - 2. Marble chips and/or glass aggregates shall be standard colors and gradated sizes as supplied by United Terrazzo Supply, La Mirada, CA.
- B. Acceptable installers
  - 1. Terrazzo installation contractor shall be current Contractor members of the NTMA and shall perform all work in accordance with NTMA specifications and standards.

#### 1.03 SUBMITTALS

- A. Product Data
  - 1. Submit product data for all related materials including divider strips, expansion strips, membranes, sealers and cleaners.
- B. Samples
  - 1. Submit (3) 6" square samples for each color and type of terrazzo specified or selected.
  - 2. Submit (3) 6" lengths of each divider of expansion strip required.
- C. Certification
  - 1. Submit certification letter from NTMA that terrazzo installation contractor is current member in good standing of the NTMA.

#### 1.04 DELIVERY, STORAGE AND HANDLING

- A. Delivery of materials
  - 1. Deliver materials in a manner to prevent damage or contamination to containers or bags of materials.
- B. Storage of materials
  - 1. Store materials in a clean, dry location, heated to minimum 50 degrees, furnished by others.

## 1.05 Guarantee/Warranty

- A. Terrazzo materials and installation shall be guaranteed for a period of (1) year from date of substantial completion. Guarantee shall be limited to the repair and/or replacement of materials or workmanship found to be defective per NTMA standards and specifications.

## PART 2 – PRODUCTS

### 2.01 MATERIALS

- A. Primer: Spectrem Terrazzo Bond Coat.
- B. Flexible Membrane: Crossfield SC Membrane.
- C. Polyacrylate Matrix: Crossfield P-61 polymer modified matrix.
- D. Neobond waterproofing membrane (applicable where compatible waterproofing is required).
- E. Marble Chips; #0, #1 and #2 as distributed by United Terrazzo Supply.
- F. Divider Strips; Zinc, \_\_\_\_\_" in thickness.
- G. Terrazzo Cleaner: PH Factor between 7 and 10, biodegradable and phosphate free.
- H. Sealer: TESCO Crystalseal penetrating sealer.

### 2.02 MIXES

- A. Terrazzo Selection:
  - 1. Terrazzo type shall be ½" Polyacrylate Matrix Terrazzo
  - 2. Color shall be NTMA color plate or custom matrix as selected by designer.
- B. Proportions:
  - 1. In accordance with General Polymers recommendations.
- C. Mixing:
  - 1. Terrazzo Topping: Charge and mix marble chips and Epoxy Resin.

## PART 3 – EXECUTION

### 3.01 INSPECTION

Examine areas to receive terrazzo for:

- 1. Defects in existing work that affect proper execution of terrazzo work. Notify contractor of any defects in concrete or wood sub-floor or other related work for correction.
- 2. Concrete shall be a minimum 3,000 PSI, with 30-day cure, and shall be level to within ¼ per 10 sq.ft. Crossfield Spectrem Terrazzo is a breathable floor, however concrete slab should have an effective moisture/vapor barrier.
- 3. Wood sub-floor shall be of sufficient thickness with floor joists at 16" O.C. minimum to eliminate any deflection. Wood sub-floor shall be level to within ¼" per 10 sq.ft.
- 4. Start only when all defects have been corrected by others.

### 3.02 INSTALLATION

- A. Subfloor:
  - 1. Prepare substrate to receive epoxy terrazzo by shot blasting or grinding to expose clean concrete or other related work for correction.
  - 2. Install flexible membrane as required at cold joints and crack in substrate.
  - 3. Install divider strips as indicated on approved layout.
- B. Placing Terrazzo:
  - 1. Prime subfloor in accordance with manufacturer's recommendations.

2. Place terrazzo mixture in panels formed by divider strips and trowel mixture to top of strips.
- C. Curing:
1. After completing placement of terrazzo allow to cure until topping develops sufficient strength to prevent lifting or pulling of terrazzo strips during grinding.
- D. Finishing:
1. Rough Grinding:
    - a. Grind with #24 or finer grit stones or with comparable diamond plates.
    - b. Follow initial grind with #80 or finer grit stones.
  2. Grouting:
    - a. Cleanse floor with clean water and rinse.
    - b. Remove excess rinse water and machine or hand-apply grout, taking care to fill voids.
    - c. Grout may be left on terrazzo until all heavy or messy work in project is complete.
  3. Fine Grinding:
    - a. Grind with #80 or finer stones until all grout is removed from surface.
    - b. Upon completion, terrazzo shall show a minimum of 70% marble chips.
- E. Cleaning and Sealing:
1. Wash all surfaces with a neutral cleaner.
  2. Rinse with clean water and allow surface to dry.
  3. Apply TESCO Crystalseal penetrating sealer in accordance with manufacturer's directions.
- F. Protection:
1. Upon completion, the work shall be ready for final inspection and acceptance by owner or agent.
  2. The General Contractor shall protect the finished floor at the time that the Terrazzo Contractor completes the work.