

RESIN MATRIX TERRAZZO

PART 1 – GENERAL

1.01 SUMMARY

- A. 3/8" nominal Epoxy Resin Terrazzo.
- B. Work included in this Section
 - 1. 3/8" Epoxy Resin Terrazzo.
 - 2. Flexible crack isolation membrane.
- C. 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: General Polymers 3501.
- B. Flexible Membrane: General Polymers Epo-flex.
- C. Epoxy Resin: General Polymers 3520, 100% solids, -0- VOC Epoxy Resin.
- D. Marble Chips; #0, #1 and #2 as distributed by United Terrazzo Supply.
- E. Divider Strips; Zinc, _____" in thickness.
- F. Terrazzo Cleaner: PH Factor between 7 and 10, biodegradable and phosphate free.
- G. Sealer: TESCO Crystalseal penetrating sealer.

2.02 MIXES

- A. Terrazzo Selection:
 - 1. Terrazzo type shall be Epoxy Resin 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. Concrete slab shall have effective moisture barrier and moisture tests should be conducted to confirm suitability for installation of epoxy resin terrazzo flooring system.
- 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 is 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.