

**GUIDE SPECIFICATION FOR POURED IN PLACE TERRAZZO BASE**  
 (Revised 6/94 Supersedes all previous specifications for Poured in Place Terrazzo Base)

**SECTION 09**

**TERRAZZO BASE (POURED IN PLACE)**

Where specified in conjunction with terrazzo floors include in terrazzo floor specification. This specification is written for Poured in Place Terrazzo Base ONLY.

**PART 1-GENERAL**

**1.01 RELATED WORK SPECIFIED IN OTHER SECTIONS.**

*NOTE: DELETE NONAPPLICABLE ITEMS.*

- A. Furnishing and/or installation of metal lath and scratch coat, Section \_\_\_\_\_
- B. Attachment of metal base beads and wood grounds Section \_\_\_\_\_

*NOTE: DELETE IN CASES WHERE JURISDICTION PERMITS TERRAZZO CONTRACTOR TO INSTALL.*

- C. Backing for cement terrazzo base must be cement board, or exterior grade plywood, concrete block, or cement plaster.
- D. Sufficient water, temporary heat and light, and adequate electric power with suitable outlets connected and distributed for use within 100 feet of any working space.

*NOTE: AMBIENT TEMPERATURES SHALL BE MAINTAINED AT A MINIMUM OF 50 DEGREES FAHRENHEIT.*

**1.02 QUALITY ASSURANCE**

- A. Acceptable supplier:
  - 1. Materials furnished shall meet NTMA Specifications.
- B. Installer qualifications:
  - 1. Installer shall be a contractor member of NTMA and shall perform all work in accordance with NTMA standards.
  - 2. If installer is not a contractor member of NTMA, they shall submit a list of completed projects of a similar magnitude and complexity.

**1.03 SUBMITTAL**

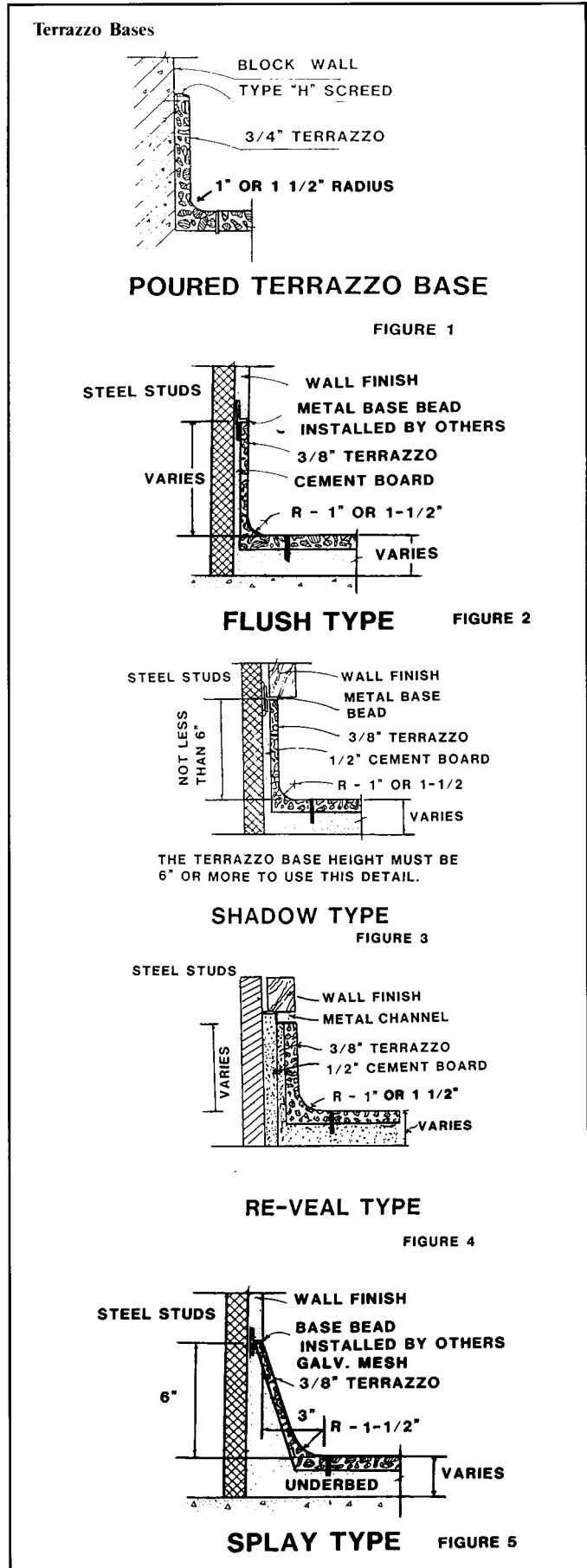
- A. Samples:
  - 1. Submit a maximum of three samples, minimum 6" x 6" for each color and type of terrazzo specified.
  - 2. Submit two, 6" minimum lengths of each type and kind of divider strip and/or control joint strip as specified.
- B. Maintenance Literature:
  - 1. Submit two copies of maintenance recommendations of NTMA or maintenance product members of NTMA.
- C. Certification:
  - 1. Suppliers shall furnish certification attesting that materials meet specification requirements.

**1.04 DELIVERY, STORAGE AND HANDLING**

- A. Delivery of materials:
  - 1. Deliver materials in a manner to prevent damage to containers and/or bags.
- B. Storage of materials:
  - 1. Store materials in a clean, dry and heated (if necessary) location.

**1.05 GUARANTEE**

One year from date of substantial completion of Terrazzo installation.



## PART 2-PRODUCTS

### 2.01 MATERIALS

A. Portland cement: ASTM C 150, Color \_\_\_\_\_  
*NOTE: SELECT AND SPECIFY WHITE OR GRAY FOR TERRAZZO TOPPING. WHITE CEMENT IS UNIFORM IN COLOR. GRAY CEMENT MAY NOT BE UNIFORM IN COLOR AND MAY PRODUCE A VARIATION OF SHADE IN THE MATRIX. (See product information)*

B. Sand: Clean, washed, locally available sand.

C. Marble Chips:

1. Size to conform with NTMA gradation standards.  
*NOTE: SEE PRODUCT INFORMATION*
2. Abrasion and Impact resistance when testing in accordance with ASTM C 131-89 shall not exceed 40% loss.
3. 24-Hour absorption rate not to exceed 0.75%.
4. Chips shall contain no deleterious or foreign matter.
5. Dust content less than 1% by weight.

D. Strips:

1. Divider Strips: \_\_\_\_\_ (gauge) \_\_\_\_\_ (material) with a height of \_\_\_\_\_ (inches) and a 1" or 1 1/2 " radius cove.  
*NOTE: (SEE DIVIDER STRIPS) SELECT GAUGE, HEIGHT, AND RADIUS OF COVE. GAUGE 18, 16, OR 14 B & S GAUGE. MATERIAL: WHITE ALLOY OF ZINC, BRASS OR PLASTIC. HEIGHT: 4 OR 6 INCHES.*

E. Colorants: Alkali-resistant color stable pigments.

*NOTE: REFER TO NTMA INFORMATION GUIDE FOR FURTHER INFORMATION.*

F. TERRAZZO CLEANER:

1. Ph factor between 7 and 10, where applicable.
2. Biodegradable and phosphate free.

G. Sealer:

1. Ph factor between 7 and 10, where applicable.
2. Shall not discolor or amber.
3. Penetrating type specially prepared for use on Terrazzo.
4. Flash Point: ASTM D 56, 80 degrees Fahrenheit minimum, where applicable.

### 2.02 MIXES

A. Terrazzo Selection:

1. Type: \_\_\_\_\_  
*NOTE: COLOR AND DESIGN FROM NTMA INFORMATION GUIDE OR COLOR PLATE. \_\_\_\_\_*

B. Proportions:

1. Setting bed: One part Portland cement to 3 parts sand and sufficient water to provide workability at as low a slump as possible.
2. Terrazzo Topping: One 94 pound bag of Portland Cement per 125 pounds of marble chips, color pigment if required and sufficient potable water to produce a workable mix.

C. Mixing:

1. Setting Bed:

- a. Charge and mix sand, aggregate and Portland cement.
- b. Add water and mix.

2. Terrazzo topping:

- a. Charge and mix marble chips, Portland cement and color pigment, if required.
- b. Add water and mix to a uniform workable consistency.

## PART 3-EXECUTION

### 3.01 INSPECTION

- A. Examine areas to receive terrazzo for defects in existing work that affect proper execution.
- B. Start work only when all defects have been corrected by others.

### 3.02 INSTALLATION

A. Setting Bed:

1. Apply mortar setting bed to backing.
2. Trowel setting bed to within 3/8 " of finished wall line.
3. Install divider strips as shown on drawings in semi-plastic setting bed.

B. Placing Terrazzo:

1. Wet setting bed and apply neat cement slurry same color as specified for the topping including pigment if contained in topping.
2. Brush slurry into setting bed surface.
3. Trowel terrazzo mixture to base shape as detailed.

C. 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 terrazzo with clean water and rinse.
  - b. Remove excess rinse water and hand apply grout using identical Portland cement, color pigments as used in topping, taking care to fill voids.
3. Cure Grout.

4. Fine Grinding:

- a. Grind with 80 or finer grit stones until all grout is removed from surface.
- b. Upon completion, terrazzo shall show a minimum of 70% of marble chips.

D. Cleaning and Sealing:

1. Wash all surfaces with a neutral cleaner.
2. Rinse with clean water and allow surface to dry.
3. Apply sealer in accordance with manufacturer's directions.

E. Protection:

1. Upon completion, the work shall be ready for final inspection and acceptance by the owner or his agent.
2. The General Contractor shall protect the finished work from the time that the terrazzo contractor completes the work.