

## **SECTION 08**

### **PRECAST TERRAZZO TILE FLOORING**

#### **PART 1 - GENERAL**

##### **1.01        DESCRIPTION**

The extent of precast terrazzo tile work is shown on drawings and in schedules to receive the linoleum flooring.

##### **1.02        QUALITY ASSURANCE**

- A.    Codes and Standards: Comply with the applicable requirements of the following codes and standards:

BS       -       British Standards:

882       Specification for aggregates from natural sources for concrete.

890       Building Limes.

1014      Pigments for Portland Cement and Portland Cement Products.

1199      Specification for Building Sands from  
1200      Natural Sources.

4131      Terrazzo Tiles.

4248      Specification for Super-Sulphated Cement.

4357      Specification for Precast Terrazzo Tiles.

5385      Wall and Floor Tiling.

8000      Workmanship on Building Sites.

Part II, Section 11.1:1989, Ceramic Tiles - Terrazzo Tiles and Mosaic.

PD       Published Documents

6472      Guide to Specifying the Quality of Building Mortars.

- B.    Source: Provide materials obtained from only one source to minimize variations in appearance and quality.

1.03        SUBMITTALS

- A.     Manufacturer's Data: Submit manufacturer's technical information and installation instructions for terrazzo tiles and accessories required. Include instructions for handling, storage, and protection of terrazzo and procedures for quality control.
- B.     Samples: Submit samples not less than 300 mm square, of colour, grade and finish of terrazzo to be provided. Include the full range of exposed colour and texture to be expected in the completed work.
- C.     Shop Drawings: Submit shop drawings showing elevations and plans for layout of terrazzo work and layout of divider strips.

1.04        PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver and handle terrazzo units carefully, so as to protect units from damage. Stack units off ground to prevent contamination by mud, dust or materials likely to cause staining or other defects. Units shall be protected when necessary, by a suitable weatherproof covering. Use non-staining materials for blocking and packing.

1.05        SPARE MATERIAL

- A.     The Contractor shall provide at his own cost spare material of 1% (one per cent) of each tile used in clean, marked cartons for the Client's use.

PART 2 - PRODUCTS

2.01        MATERIALS

- A.     Cement: BS 4248.
- B.     White Cement: Standard Non-Staining White Cement for grout.
- C.     Sand: BS 1199 and 1200.
- D.     Pigment for Coloured Grout: Provide pigments to BS 1014 for coloured grout that match color of marble. Use commercial iron oxide, manganese dioxide, ultra marine blue, chromium oxide or carbon black suitably compounded for use in grouting mortar. Do not exceed pigment to cement ratio recommended by manufacturer.
- E.     Water: Clean, potable.
- F.     Cleaner: Neutral chemical cleaner, free from crystallizing salts or water soluble alkaline salts, formulated for portland cement terrazzo.

- G. Sealer: Colourless, slip and stain resistant, non-yellowing penetrating sealer which will not disturb the color or physical properties of the terrazzo surface.

## 2.02 FABRICATION OF PRECAST TERRAZZO

- A. General: Unless otherwise directed, comply with BS 4131.
- B. Precast Terrazzo Units:
  - 1. Provide precast terrazzo units of the shapes and sizes required, polished on exposed faces.
  - 2. Fabricate terrazzo tiles and skirtings, accurately cut to shape and dimensions shown and as detailed on drawings.
  - 3. Cut and grind edges as required to ensure, uniform joint width and uniform sized units.
- C. Tiles and Skirting: size and thickness are as stated in the Bill of Quantities.

## 2.03 ACCESSORIES

- A. Control and Movement Joints: Control and movements joints material shall be in compliance with Section 05805 "EXPANSION JOINT ASSEMBLIES".

## PART 3 - EXECUTION

### 3.01 INSPECTION

- A. The Contractor must examine the substrate and conditions under which the work is to be performed and correct any unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Engineer.

### 3.02 INSTALLATION

- A. Match approved sample for terrazzo type, colour pattern and finish. Mix pigments with cement prior to mixing with aggregates.
- B. Comply with BS 5385 and manufacturer's specifications and recommendations for preparation of substrate, proportioning mixes, installation of strips, and for placing, curing, grinding, grouting and finishing.
- C. Extend tile work into recesses and under and behind equipment and fixtures to form a complete covering without interruptions except as otherwise shown. Terminate work neatly at obstructions edges and corners without disruption of pattern or joint alignment.

- D. Jointing Pattern: Unless otherwise shown, lay tile in grid pattern. Align joints, when adjoining tiles on floor and skirting are the same size. Lay out tile work and center tile fields both directions in each space. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise directed.
- E. Provide terrazzo tiles, and skirting without interruptions or seams.
- F. Setting Beds: When not otherwise indicated, provide "mud set" setting bed not less than 50 mm thick, of portland cement sand mortar (1:3).
- G. Rubber Strips: Where indicated on drawings, provide non-slip rubber strip to the exposed edge of terrazzo flooring.
- H. Curing: Cure and protect terrazzo flooring for a minimum of 3 days.
- I. Clean terrazzo flooring after installation and finishing operations are completed.
- J. Apply approved sealer to cleaned terrazzo surfaces in accordance with manufacturer's instructions. Apply maximum number of sealer coats recommended by manufacturer.
- K. Final Cleaning: Clean terrazzo and machine buff as required when building is ready for occupancy.

\*\* END OF SECTION \*\*