

Finishes**Portland Cement Rustic Terrazzo Flooring (09 66 13)**

For questions regarding this section contact: Physical Plant
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Part 1 – General

- Section includes cast in place rustic terrazzo paving, divider strips and termination edging.

Part 2 – ProductMaterials:

- Portland Cement: ASTM C 150, Type I Normal; white color for topping mix; gray color for underbed; modified to NTMA higher compressive strength requirements; obtained from single source
- Color Pigments For Topping: Non-fading mineral type, alkali-resistant
- Terrazzo Sand ASTM C 33, fine aggregates, and free of injurious amounts of deleterious material
- Water: Potable
- Surface Aggregate: Crushed granite No. 0 to 1 size in accordance with NTMA chip size for standard gradation and uniform coloration

Accessories:

- Underbed Welded Wire Reinforcement: ASTM A 185/A 185M; 2 x 2, 18/18 wire, epoxy coated
- Divider Strips: 1/4 inch thick brass exposed top strip, zinc coated steel concealed bottom strip, with anchoring features. Provide Heavy Top 'I' strips manufactured by Manhattan American Terrazzo Strip Company
- Control Joint Strips: 1/4 inch nominal width brass exposed top strips, zinc coated steel concealed bottom strip, neoprene filler strip between vertical strips, with anchoring features.
- Provide Expansion T strips manufactured by Manhattan American Terrazzo Strip Company
- Divider and Control Joint Strip Height: To suit thickness of terrazzo topping
- Foam Filler: Closed cell urethane foam, capable of compression to 50 percent of its thickness with full recovery
- Slip Sheet: ASTM 02103; 6 mil polyethylene sheet
- Curing Compound: ASTM C 309
- Sealer: Colorless, non-yellowing, penetrating liquid type, pH of 7 to 10; not detrimental to terrazzo components. Provide manufactured by MIXES
- Underbed: One part portland cement to 4 parts sand by volume. Add water to produce low slump mix
- Paving: Comply with mix requirements of NTMA Plate No., white portland cement, with exposed divider and accessory strips

Part 3 – ExecutionPreparation:

- Clean substrate of foreign matter
- Remove loose or flaking concrete and repair to form sound, solid substrate
- Remove surface water and thoroughly brush in neat cement slurry bond coat

Application – Bonded Terrazzo

- Place cementitious underbed over wet slurry bond coat, to a nominal thickness of 1 1/2 inches
- Soak surface of concrete with clean water prior to placement
- Install reinforcing mesh midway in underbed thickness
- Broom finish top surface of underbed
- Divide underbed construction into panels of 200 sq. ft. separated with 1/2 inch foam filler

- Place divider strips and control joints at locations indicated and insert in semi-plastic uncred underbed.
- Install straight and level
- Slope strips to achieve floor surface slope to drains

Curing:

- Begin curing procedures as soon as curing materials can be applied without damaging formed surfaces
- Cure terrazzo topping 7 days by the sheet polyethylene curing method in acceptance with NTMA instructions
- Close area to construction traffic, allowing undisturbed curing

Surface Finishing:

- Finish terrazzo in accordance with NTMA instructions
- Expose aggregate by hosing, absorbent rolling, or use of a retarder

Tolerances:

- Maximum Variation from Level (Except Surfaces Sloping to Drain): 1/8 inch

Cleaning:

- Scrub and clean terrazzo surfaces with cleaner in accordance with NTMA instructions. Let dry.
- Immediately after terrazzo has dried, apply sealer in accordance with NTMA and manufacturer's instructions and let dry.
- When topping is sufficiently cured, in the opinion of the terrazzo installer, apply a 1 to 10 solution of muriatic acid in water, scrub with a stiff broom to remove all laitance, and rinse immediately with clean water to remove all traces of the acid.
- Acid wash no sooner than 7 days after installation.