DESCRIPTION

CAST Terrazzo Products are architectural precast epoxy terrazzo pieces. Our work includes steps and bases that can be crafted to fit a variety of environments and styles with our available customization options. Step options include CAST Rise-Run Treads, CAST Open Structural Risers, and CAST Flat Treads.

<https://dancerconcrete.com/cast-terrazzo-products/>

**Durability.** Longest lasting and lowest maintenance surfaces available.

**Design.**  Unlimited aggregates and color combinations.

**Investment.** Distinguish your space with terrazzo.

**Surface Terrazzo Floor.** Ability to match your design choices with terrazzo flooring.

**Additional Options**

* Exotic Blends. Upgrade your products with glass, mirror, and mother-of-pearl.
* Samples. Unlimited options available.
* Grip Strips. Abrasive, zinc, and brass options available.
* Education. Nationwide AIA-Accredited classes available.
* Details. Fully customizable construction drawings, details, and specifications available.

QUICK SPEC

PRECAST EPOXY TERRAZZO PRODUCTS, CAST TERRAZZO PRODUCTS

Samples and color blending options provided by CAST Terrazzo Products.

Contact: Nick Dancer, 260-415-1951, create@castterrazzoproducts.com

CAST Terrazzo Products offer AIA-Accredited Courses for Terrazzo hosted in your office or ours. Please contact us to schedule and for budget pricing, samples, or design considerations.

Nick Dancer. create@dancerconcrete.com, 260-415-1951.

PART 1 – GENERAL

1.1    SUMMARY

1. Section includes products and procedure for precast epoxy terrazzo products for designated area as specified herein as indicated on drawings.
2. Precast Epoxy Terrazzo Products include:
3. CAST Rise-Run Treads
4. CAST Structural Open Risers
5. CAST Flat Treads
6. CAST Base

1.2    REFERENCES

1. American Society for Testing and Materials (ASTM)
2. ASTM C-150
3. ASTM C-33
4. ASTM C-140
5. ASTM C-293
6. National Terrazzo and Mosaic Association Inc. (NTMA)

1.3    SUBMITTALS

1. Shop Drawings: Show detail sections and profile for all precast products, including layout of strips, all reinforcing materials, and special hardware for fastening.
2. Samples: For each type of exposure, finish, and color. Sample size 6” x 6”.
3. Product Data: Manufacturer’s technical literature for each type of terrazzo, accessory item, and component material indicated, specified, or required.
4. Performance Requirements:
5. Compressive Strength 10,000 p.s.i.
6. Flexural Strength 3,000 p.s.i.
7. Material Certification: Supplier’s/Manufacturer’s written certification that materials meet specification requirements.

1.4    QUALITY ASSURANCE

1. Qualifications: Company experienced in performing work similar in design, products, and extent to scope of this project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to produce specified work.
2. Manufacturer Qualification: Approved by the manufacturer of terrazzo materials.

1.5    DELIVERY, STORAGE, AND HANDLING

1. Packaging and Shipping: Precast terrazzo products to be secured on pallets, plastic wrapped, and delivered in original unopened packaging with legible manufacturer identification, including size, piece number, quantities, manufacturer date, and inspector initials.
2. Storage and Protection: Store products in original shipment packaging until time of installation. Store in a clean, dry, and heated indoor location (55-90F), furnished by others.
3. Damage: Report all damage due to the shipment company immediately. Bill of Lading should note all damages to the product(s). Photographed proof is required.

1.6 WARRANTY

1. CAST Terrazzo Products warrants that products are free from defects and will perform substantially.
2. CAST Terrazzo Products’ liability with respect to this warranty covers workmanship and material of the product for a period of one year.

PART 2 – PRODUCTS

2.1    ACCEPTABLE MANUFACTURES

1. Basis of Design: for products and materials specified from CAST Terrazzo Products, Fort Wayne, Indiana. Products of the manufacture are approved provided compliance with all technical requirements as specified herein:
2. CAST Terrazzo Products, 4515 Engle Ridge Drive, Fort Wayne, IN. Contact Nick Dancer, 260-415-1951, create@castterrazzoproducts.com.

2.2    PRODUCT MATERIALS

1. Epoxy Resin
2. Aggregates
3. All aggregates to meet ASTM C-33 specifications, cleaned, and properly graded to size. Aggregate shall be blended to meet individual project requirements.
4. Marble Chips
5. Size to conform with NTMA gradation standards.
6. Grip Strips
7. Consists of black high-performance polyurethane sealant unless otherwise noted.
8. Shall be specified to 1 to 3 lines.
9. Colorant
10. Pigments used shall be inorganic, resistant to alkalinity, and used per manufacturer's recommendations.
11. Stain Protector
12. Color-enhancing, penetrating stain repellent from oil- and water-based stains.
13. Cleaner
14. Liquid neutral chemical cleaner, with pH factor between 7 and 8, of formulation recommended by manufacturer for type of precast terrazzo products used and complying with NTMA requirements.

2.3    MANUFACTURED UNITS

1. Sizing Tolerances
2. All units to conform to Shop Drawings with a ¹⁄₁₆” tolerance in dimension.
3. Precast Surfaces and Edges
4. All exposed edges to be ground and polished with a minimum of ³⁄₁₆” bevel.
5. All finished surfaces are to be ground and polished, free of holes, and have overall uniformity in matrix and aggregate.

PART 3 - EXECUTION

For more detailed steps please call Nick Dancer with CAST Terrazzo Products at 260-415-1951 or by email at create@castterrazzoproducts.com. Finishing steps vary depending on the job site conditions or concrete.

3.1 EXAMINATION

1. Examine areas to receive precast terrazzo products for:
2. Defects in existing substrate that affect proper performance of the products.
3. Deviations beyond allowable tolerances for the substrate.
4. Start installation only after defects have been corrected.

3.2 INSTALLATION

1. Setting
2. Setting methods will vary per product. Set accurately as shown on the approved Shop Drawings. Follow all manufacturer’s instructions on proper bonding of all materials.
3. Setting Methods
	1. Epoxy-based setting material
	2. Weld attachment: Please contact the manufacturer for recommended welding guidelines as provided by your structural engineer. Do not run a continuous weld when attaching products to avoid overheating and cracking the terrazzo.
	3. Bolt attachment: Only use the bolt-in option if the weld attachment cannot be used. To prevent cracking of the terrazzo products, do not torque the bolts too tightly.
4. All thinset materials, whether cement or epoxy-based, will require a full setting bed to be applied to all appropriate surfaces of the precast terrazzo products, both vertical and horizontal, where contact is made with the substrate or structural base.
5. Alignment of precast terrazzo products should be straight and true to all dimensions. It may not vary more than ⅛” in length, height, or width.
6. Install anchors as shown on Shop Drawings, if required.
7. Fill joints with manufacturer-approved material or as specified.
8. Finish
9. Clean precast terrazzo products with neutral pH cleaner. If there are any irregularities on the surface of the stairs, check and repair them.
10. CAST Terrazzo Products contain a stain protector prior to packaging. It is not required to seal the precast products prior to or after installation.

3.3 PROTECTION

1. During construction operation, General Contractor to protect from damage and wear to all precast terrazzo products after installation.

END OF SECTION 09 66 00