# TERRAZZO RELIABILITY



THE NATIONAL TERRAZZO & MOSAIC ASSOCIATION, INC.







In the past, clients have looked to Terrazzo for quality, reliability, and value.

Now they're also looking for style, sophistication, and commitment to total customer

satisfaction. Terrazzo fits any design plan, from simplistic to complex art-deco patterns.

Terrazzo's value is second to none—it will last the life of the building, so there are no

replacement concerns for the future. It is also an economical, low-maintenance alternative

to marble or granite, while offering the attractive attributes of natural stone.



# BASIC TERRAZZO SYSTEMS INFORMATION Available to Fit Variable Job Conditions

System	Description	Advantages	Thickness	Weight	Dividers
Sand Cushion \$\$\$	A cement matrix topping underbed with wire reinforcing, isolation sheet, and sand layer system for interior floor use. This is the best cement based system.	Due to the underbed's depth, wire mesh reinforcing and sand layer, it will absorb minor substrate defects and prevent mirroring to the surface.	2½" to 3" including a ½" terrazzo topping.	25-30 lbs. PSF.	The position of divider strips is essential to performance, serving a dual function: a control for anticipated contraction and an aesthetic enhancement in separating colors. 5 feet or less on centers. Architects should design structural inset expansion plates between areas where major movement is anticipated.
Epoxy \$\$\$	A nominal <sup>1</sup> / <sub>4</sub> " or <sup>3</sup> / <sub>8</sub> " thick resin matrix veneer placed upon a flat concrete slab; also can be specified with glass, synthetic, or granite aggregates in lieu of marble to provide brilliant colors or chemical resistance. Epoxy terrazzo has the greatest tensile, compressive, and flexural strength of any system.	Unlimited matrix colors, color control, resiliency, chemical resistance and tensile-compressive strengths not found in cement based systems. Excellent for multi-colored patterns and designs. Light weight and flexibility make it ideal for multi-story use. It has the lowest maintenance cost due to non-absorbancy*. In sanitary areas it can be installed with minimal dividers providing seamless characteristics. When used in conjunction with a flexible membrane as a specified extra, it can absorb some horizontal concrete crack or control joint movement. It also has the quickest pour to grind installation time. Can also be used over properly installed and prepared plywood. Glass and other decorative aggregates increase cost.	Nominal <sup>1</sup> / <sub>4</sub> " or <sup>3</sup> / <sub>8</sub> " epoxy terrazzo topping. #0-1 chip sizes opt. #2 chip for <sup>3</sup> / <sub>8</sub> "	3-4 lbs. PSF.	All these systems adhere to the concrete and require dividers to be placed precisely above any concrete joints (see details on previous page). To prevent the concrete from cracking and therefore the terrazzo, "ACI 302.1 R.04 Concrete Joint Placement" must be followed. Some of these requirements include: Concrete joints should occur a maximum of three times in feet the depth of the concrete in inches. (Example: A 4 inch slab should have concrete joints at a maximum spacing of 12 feet.) Concrete joints should run off all corridor intersections and corners. They should not be spaced more than 1½ times the width of the concrete pour. (Example: A 6 foot wide corridor should have concrete joints at a maximum of 9 feet.)
Polyacrylate \$\$	A nominal 3/s" thick polymer modified cement matrix veneer placed upon a provided flat concrete slab. Polymer provides strength to allow for thinner applications of cementitious systems.	Fast installation and moderate price range make it ideal to replace vinyl or carpet without depth transition difficulties; also good to use in areas subject to moisture vapor transmission where epoxy terrazzo and other non-breathing floors will not adhere.	Nominal 3/8" polyacrylate with terrazzo topping. Chip sizes #0, 1, & 2.	4 <sup>1</sup> / <sub>2</sub> lbs. PSF.	In addition other dividers can be set to sepa- rate colors or as an accent themselves. In these systems the dividers not located over concrete joints are strictly decorative. They do not function as leveling devices or crack preventers.
Monolithic \$	This <sup>1</sup> /z-inch thick cement matrix veneer placed upon a provided concrete slab is dependent on the concrete quality for flatness and crack prevention.	Fast installation and the most economical price make it ideal where time and budget are critical but where beauty, low maintenance, and the performance of terrazzo is desired.	½" terrazzo topping.	5-7 lbs. PSF.	Dividers may vary in width from 18 gauge to ¹/₂ inch. 16 gauge or ¹/₂ inch are standards. Zinc is standard but brass and colored plastic are readily available. Aluminum divider strips are allowable for use in epoxy terrazzo systems
Bonded \$\$\$	A cement matrix and underbed system for interior and exterior areas where conditions require 1½" to 13½" of recessed depth to be filled in addition to the ½" terrazzo topping.	With the sand-cement underbed it has less dependence on the concrete slab for flatness when compared to monolithic.	1 <sup>3</sup> / <sub>4</sub> " to 2 <sup>1</sup> / <sub>4</sub> " including <sup>1</sup> / <sub>2</sub> " terrazzo topping.	18-22 lbs. PSF.	when a white metal strip is desired.  Architects should design structural inset expansion plates between areas where major movement is anticipated.
Structural \$\$\$	For large areas over a graded compacted base. Involves 4" of 3,500 PSI underbed concrete plus 1/2" terrazzo topping.	Single contract control: One contractor places both the concrete slab and the finished terrazzo surface.	4½" to 6", including a ½" terrazzo topping.	Approx. 60 lbs. PSF.	Divider strips are deeper than usual: 1½" to 2" inserted into the underbed 8 feet to 10 feet on centers. Control strips are provided on column lines.
Rustic \$ varies with system	Terrazzo with a non-ground, textured surface for exterior use. This system is available with Sand Cushion, Bonded, Structural and Monolithic, or any cement system.	Infinitely variable textures, colors and patterns may be created in a weather-resistant, skid resistant deck surface.	½" to 6" including a ½" terrazzo topping.	Dependent on system selected	Temporary wood strips are used, then replaced by a pourable sealant inserted into the joint.
Precast	Prefabricated custom units for steps, bases, planters, benches, wall panels, etc.	Unlimited uses.	Custom finished		

<sup>\$</sup> These are relative symbols. There is a wide variety of pricing within systems and geographic regions. For instance it is possible to design a Monolithic Terrazzo system as costly as an inexpensively designed Sand-Cushion system. Price factors include: pattern complexity; number of different colors; local labor rates; divider strip quantity and type; size and source of aggregate; size of areas and total project; number of phases and logistics; new constructions or renovations. Consult your local NTMA contractor for budget pricing. Some national pricing data such as Means is as much as 100% off.

General Note:

The standard finish on terrazzo is an 80 grit carborundum polish. When used in conjunction with a U/L listed "slip resistant" sealer this provides a 0.6 anti-slip coefficient of friction as recognized by the ADA under Accessibility Guideline section 4.5. Higher polish grits that tend to deepen and darken the aggregates are available. Recently, architects have been specifying a "thermal" finish in transition areas (outdoor to indoor) and ramps. This involves grinding the terrazzo smooth and then either sand-blasting or acid etching the surface to produce a cleanable, extremely non-slip surface.



<sup>\*</sup> Non-Absorbancy is an asset in epoxy terrazzo that also causes a word of caution. Epoxy Terrazzo like any other non-breathing floor such as rubber sheet flooring is susceptible to debonding by moisture vapor transmission on slabs on grade. Consult Epoxy Manufacturer for proper concrete and waterproof membrane measures to prevent this occurrence.

#### Sand Cushion Terrazzo

(Short Form Specification)

All work shall be executed in accordance to the complete specifications of the NTMA, to be found in the technical manual published by this Association. Minimum thickness requirement:  $2^{1}/2$  inches.

#### **Execution**

**3.01 Inspection:** Examine areas to receive Terrazzo for: Defects in existing work that affect proper execution of Terrazzo work, deviations beyond allowable tolerances for the concrete slab work, and that area is broom cleaned and free of foreign matter. Start work only when all defects are corrected by others.

#### 3.02 Installation:

#### A. Underbed:

- 1. Cover entire surface to receive Terrazzo with a dusting of sand.
- 2. Install isolation membrane overlapping ends and edges a minimum of 3 inches.
- 3. Install welded wire reinforcement: Overlap wire at edges and ends at least 2 squares.
- 4. Place underbed mix.
- 5. Screed underbed to elevation <sup>1</sup>/<sub>2</sub> inch below finished floor elevation or slope for standard Terrazzo. (For Venetian topping, use <sup>3</sup>/<sub>4</sub> inch).
- 6. Install divider strips as shown on drawings in semi-plastic underbed creating a positive anchorage.

## B. Placing Terrazzo

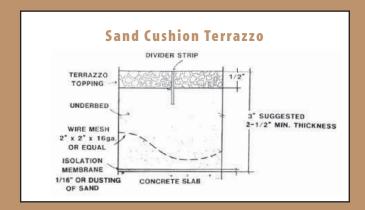
- 1. Saturate underbed with water.
- 2. Place terrazzo mixture in panels formed by divider strips and trowel mixture to tops of strips.
- 3. Seeding of additional marble chips is optional.
- 4. Roll surface with rollers until all excess water/cement has been extracted.
- 5. Trowel to a dense uniform flat surface disclosing lines of divider strips.

Additional divider strip information, refer to strip guide in this publication.

For the following refer to copy next page:

Curing, grinding, grouting, fine grinding (See paragraphs A-E).

Cleaning, Sealing and Protection (See paragraphs F-G).



#### Thinset Monolithic Terrazzo

(Short Form Specification)

All work shall be executed in accordance to the complete specifications of the NTMA, to be found in the technical manual published by this Association. Minimum thickness requirement:  $\frac{1}{2}$  inch.

#### **Execution**

**3.01 Inspection:** Examine areas to receive terrazzo for: Defects in existing work that affect proper execution of Terrazzo work, deviations beyond allowable tolerances for the concrete slab work, and that area is broom cleaned and free of foreign matter. Start work only when all defects are corrected by others. Note: Cracks in substrate will usually be transmitted through topping to surface. Substrate not to vary more than <sup>1</sup>/<sub>4</sub> inch from true plane in 10 foot. Thin-set, as specified, is not intended to level or flatten the substrate and will only follow the contour of the concrete slab. If, for any reason any materials used to correct nonconformity must be compatible with the selected Thin-set system and be approved by the terrazzo contractor.

#### 3.02 Installation:

#### A. Subfloor:

- 1. Install control joints above control joints in subfloor.
- 2. Install divider strips as shown on drawings.
- 3. Saturate concrete subfloor with water.

Note: Do not saturate concrete substrate with water if an epoxy bonding agent is used.

4. Apply bonding agent.

Note: Synthetic bonding agent (Acrylic or Epoxy) may be considered.

- 5. Place Terrazzo mixture in panels formed by divider strips and trowel mixture to tops of strips.
- 6. Seeding of additional marble chips is optional.
- 7. Roll surface with rollers until all excess water/cement has been extracted.
- 8. Trowel to a dense uniform flat surface disclosing lines of divider strips.

Additional divider strip information, refer to strip guide in this publication.

For the following refer to copy next page:

Curing, grinding, grouting, fine grinding (See paragraphs A-E).

Cleaning, Sealing and Protection (See paragraphs F-G).

### Thin-Set Resinous Terrazzo

(Short Form Specification)

All work shall be executed in accordance to the complete specifications of the NTMA, to be found in the technical manual published by the Association.

## Execution

**3.01 Inspection:** Examine areas to receive terrazzo for: Defects in existing work that affect proper execution of Terrazzo work, deviations beyond allowable tolerances for the concrete slab work, and that area is broom cleaned and free of foreign matter. Start work only when all defects are corrected by others. Note: Cracks in substrate will usually be transmitted through topping to surface. Substrate not to vary more than  $^{1}/_{4}$  inch from true plane in 10 foot. Thin-set, as specified, is not intended to level or flatten the substrate and will only follow the contour of the concrete slab. If, for any reason any materials used to correct nonconformity must be compatible with the selected Thin-set system and be approved by the terrazzo contractor.

#### 3.02 Installation:

#### A. Subfloor:

- Prepare substrate to receive Terrazzo in accordance with the resin manufacturer's recommendations.
- 2. Install control strips directly above substrate joints.
- 3. Install dividers strips as per architect's drawings.

## B. Placing Terrazzo:

- 1. Prime subfloor in accordance with resin manufacturer instructions.
- 2. Place Terrazzo mixture and trowel mixture to a dense flat surface to top of divider strips.

Additional divider strip information, refer to strip guide in this publication.

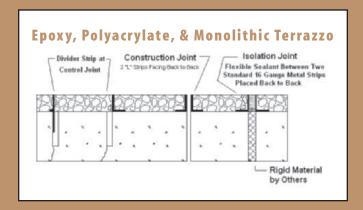
For the following refer to copy next page:

Curing, grinding, grouting, fine grinding (See paragraphs A-E).

Cleaning, Sealing and Protection (See paragraphs F-G).

- **(A) Curing:** After completing placement of Terrazzo after composition has sufficiently set, cover with water, wet sand or polyethylene sheeting. Cure until topping develops sufficient strength to prevent lifting or pulling of marble chips during grinding.
- **(B) Grinding, Grouting, Finishing:** Grind with 24 or finer grit stones or with comparable diamond plates. Follow initial grind with 80 or finer grit stones.
- **(C) Grouting:** Cleanse floor with clean water and rinse. Remove excess rinse water and machine or hand apply grout taking care to fill voids. Note: Use resin-type grout for Thinset systems.
- **(D) Curing grout:** Note: Grout may be left on Terrazzo until all heavy and messy work in project is completed.
- **(E) Fine grinding:** Grind with #80 grit or finer to remove grout and match Terrazzo contractor's submitted and approved Terrazzo sample.
- **(F) Cleaning and Sealing:** Wash all surfaces with a neutral cleaner and water. Rinse with clean water and allow to dry. Apply sealer in accordance with manufacturer directions. Upon completion, the work shall be ready for final inspection and acceptance by owner and his agent.
- **(G) Protection:** The General Contractor shall protect the finished floor from the time the Terrazzo contractor completes the work.

Note: Complete specifications for all Terrazzo systems not shown can be found in the NTMA Technical Manual.



## Marble Chips

Marble chips of various types and colors are quarried, carefully selected to avoid off color or contaminated materials, crushed by a process that will largely eliminate flat or slivery chips and sized for use in Terrazzo systems. Excellent domestic and imported chips are available for use in Terrazzo offering a wide range of colors which can be combined in an infinite variety of blends.

Marble chips are sized into several categories to meet the requirements of each of the Terrazzo systems available from this Industry as follows:

- Standard, indicated by "S" normally requires equal parts of #1 and #2 size chips.
- Thin-set, indicated by "TS", \(^1/4\) inch minimum thickness requires the greater percent age of the Marble chip sizes to be #1, along with #0 size chips.
- Venetian, indicated by "V" requires Marble chips sizes #1-8: \(^1/4\) inch to 1 \(^1/8\) inches.
- Palladiana, indicated by "P", requires fractured Marble slabs on special orders for color and sizes.
- "G" indicates Granite or Glass aggregate.
- "C" indicates Conductive systems, marble chip sizes #1 and #0.
- "SF" indicates a Special Finish, where the terrazzo has been additionally ground and polished to further deepen the aggregate color.

Although meticulous care was taken to develop paper color illustrations to ensure the

plates represent the actual finished product as close as printers ink will permit, some discrepancies may exist, therefore, it is recommended that the paper plates be used for guiding initial color selections only, and that actual samples of Terrazzo be obtained from the installing contractor prior to installation for final selection and approval. All samples should be a minimum of 6 inch x 6 inch.

#### **Divider Strip Guide**

Divider Strips are available in various gauges in White alloy of zinc, brass, aluminum, and plastic. For each Terrazzo system they have a function, more in some systems and less in others. They provide the means to create freedom of design or provide change in colors or a neat transition between Terrazzo and other materials.

Aluminum strips can be used in Epoxy Terrazzo only.

**Sand cushion or unbonded Terrazzo** systems; at standard thickness (3 inches), strips should be 5' on centers or less; each divider strip performs as a control joint, unless there is a requirement for expansion plates in the concrete substrate, no additional control joints are required.

**Bonded Terrazzo** systems require control joints to be positioned over all breaks in the concrete slab to which the Terrazzo is bonded. Refer to ACI for concrete joint, and therefore divider strip spacing. Other strips can be added for decorative purposes.

**Thin-Set Terrazzo** systems normally refer to  $^{1}/_{2}$  inch or less thick veneer-type system, bonded to a concrete slab in most cases; thus, its behavior will be wholly dependent on the slab movement. But, strips are essential to be positioned directly over breaks in the substrate, such as construction or expansion-type joints. Refer to ACI for concrete joint, and therefore, divider strip placement. Other strips can be added for decorative purposes. When considering the epoxy system, if brass divider strips are desired, consult with the epoxy manufacturer for recommendations. Aluminum divider strips are allowable for use in epoxy terrazzo systems only.

**Rustic Terrazzo** systems are normally cementitious with various thicknesses. Divider strips or control joints are essential to the performance of the finished product. The position of the strips or joints, normally set at four to eight foot on centers, is wholly dependent on the thickness of the system. For exterior use, plastic and brass strips are recommended along with the method of use of a flexible sealant on all working joints. While non-working joints can be filled with a grout. (White alloy of zinc strips are not recommended for exterior use).

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email: terrazzoinfo@tmsupply.com
website: tmsupply.com

# **DIVIDER STRIPS**

MANHATTAN AMERICAN TERRAZZO STRIP CO. 2433 Old 421 Road PO Box 7 Staley, NC 27355 v. 888.462.2813 f. 336.622.4160 email: info@manhattanamerican.com website: manhattanamerican.com

#### NATIONAL METAL SHAPES, INC.

425 South Sandusky Street Delaware, OH 43015-2626 v. 740.363.9559 or 800.837.9559 f. 740.363.3000

#### **INDUSTRIAL FLOORS**

DEX-O-TEX, CROSSFIELDS PRODUCTS CORP. 3000 E. Harcourt Street Rancho Dominguez, CA 90221-5589

v. 310.886.9100 f. 310.886.9119 nail: sales@dexotex.com website: dexotex.com

## PRECAST PRODUCTS

PRECAST TERRAZZO ENTERPRISES, INC. 1107 N. New Hope Road Raleigh, NC 27610 v. 919.231.6200 f. 919.231.6201 email: info@precastterrazzo.com website: precastterrazzo.com

## SANTAROSSA PRECAST

2707 Roosevelt Avenue Indianapolis, IN 47463 v. 317.632.9494 f. 317.631.5567 email: ds@santarossa.com website: santarossa.com

#### THINSET SYSTEMS

DEX-O-TEX, CROSSFIELDS PRODUCTS CORP.

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**KEY RESIN** 4050 Clough Woods Drive Batavia, OH 45103 v. 888.943.4532 f. 513.943.4255 email: sales@keyresin.com website: keyresin.com

#### SHERWIN WILLIAMS/GENERAL POLYMERS

145 Caldwell Drive Cincinnati, OH 45316 v. 513.761.0011 f. 513.761.1730 email: gfrench@generalpolymers.com website: generalpolymers.com

TERROXY RESIN SYSTEMS (A DIVISION OF TERRAZZO & MARBLE SUPPLY) 464 Northgate Parkway Wheeling, IL 60090 v. 800.7.MARBLE f. 847.947.7301 email: terrazzoinfo@tmsupply.com website: tmsupply.com

THE NATIONAL TERRAZZO & MOSAIC ASSOCIATION, INC 201 N Maple Avenue, Suite 208, Call toll-free: 1-800-323-9736. In Virginia call: 1-540-751-0930 EMAIL: info@ntma.com We