

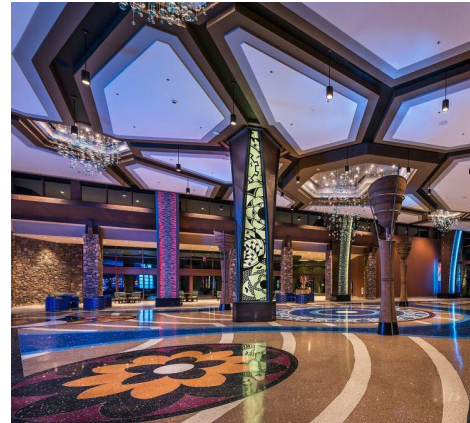
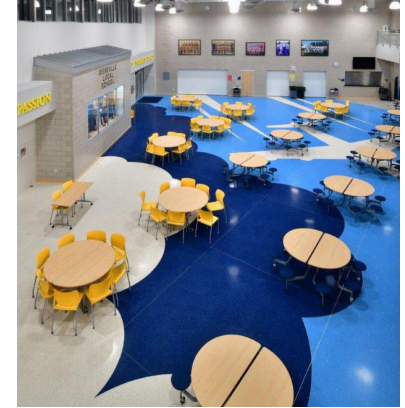
NATIONAL TERRAZZO & MOSAIC ASSOCIATION



TERRAZZO

SYSTEMS REFERENCE GUIDE





in this
GUIDE

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Introduction

Terrazzo, def., A composite flooring system consisting of either a cement or resinous matrix with marble, granite, onyx, glass (in resinous system) or other aggregate. Terrazzo is poured-in-place, cured, and ground to a smooth, hard surface finish.

Terrazzo is a custom flooring crafted essentially from natural products and subject to slight shade variations. Cement, both white and gray, may not be uniform in color.

Cement Terrazzo Systems

Sand Cushion, def., Cement matrix terrazzo system that is installed independent of the concrete slab. Cement underbed, with wire reinforcing, isolation sheet, and light dusting of sand and terrazzo topping. Interior System. 2-1/2 inch to 3 inch thickness, including a 1/2 inch nominal thickness terrazzo topping.

Bonded Terrazzo, def., Cement matrix terrazzo system that bonds directly to the concrete slab. Cement underbed and terrazzo topping. Interior System. 1-3/4 inch thickness, including 1/2 inch nominal thickness terrazzo topping.

Monolithic, def., Cement matrix terrazzo system that bonds directly to the concrete slab. Dependent on quality of the concrete slab for flatness and crack prevention. Interior System. 1/2 inch nominal thickness terrazzo topping.

Polyacrylate, def., Polymer modified cement matrix terrazzo system that bonds directly to the concrete slab. Dependent on quality of the concrete slab for flatness and crack prevention. Interior System. 3/8 inch nominal thickness terrazzo topping.

Resin Terrazzo Systems

Epoxy def., Resin matrix terrazzo system that bonds directly to the concrete slab. Dependent on quality of concrete slab for flatness and crack prevention. Interior System. 3/8 inch nominal thickness terrazzo topping.

BASIC TERRAZZO SYSTEMS INFORMATION

AVAILABLE TO FIT VARIABLE JOB CONDITIONS

System	Description	Advantages	Thickness	Weight	Dividers
Epoxy	A nominal 3/8" thick resin matrix veneer placed upon an interior flat concrete slab; in addition to traditional marble chips, also can be specified with granite, glass, plastics, metal, and other aggregates to provide brilliant colors, unique accents, chemical resistance, etc. 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 available in cement based systems. Excellent for multi-colored patterns and designs. Light weight and flexibility make it ideal for multi-story use. It has a lower maintenance cost due to low permeability. 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. Can be installed with a flexible membrane to aid in the suppression of reflective cracking. 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 normally increase the cost.	Nominal 3/8" epoxy terrazzo topping. #0-1 chip sizes optional. #2 chip for 3/8"	3-4 lbs. PSF.	<p>All these systems adhere to the concrete and require dividers. To minimize cracking in the concrete, "ACI 302.1 Concrete Joint Placement" must be followed. Concrete joints should run off all corridor intersections and corners.</p> <p>In addition other dividers can be set to separate 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.</p>
Monolithic	This nominal 1/2" 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.	1/2" terrazzo topping.	5-7 lbs. PSF.	<p>Dividers may vary in width from 18 gauge to 1/2". 16 gauge or 1/8" are standards. Zinc and brass are available for cement. Zinc, brass, plastic and aluminum divider strips are allowable for use in epoxy terrazzo systems.</p>
Bonded	A cement matrix and underbed system for interior and exterior areas where conditions require 1-1/4" to 1-3/4" of recessed depth to be filled in addition to the 1/2" terrazzo topping.	With the sand-cement mortar underbed it has less dependence on the concrete slab for flatness when compared to monolithic.	1-3/4" to 2-1/4" including 1/2" terrazzo topping.	18-22 lbs. PSF.	
Polyacrylate	A nominal 3/8" thick polymer modified cement matrix veneer placed upon a provided flat concrete slab. Polymer provides added strength to allow for thinner applications of cement systems.	Ideal to replace vinyl or carpet without depth transition difficulties; also good to use in areas subject to high moisture vapor transmission where non-breathing floors will often not suitably adhere without supplemental topical treatments.	Nominal 3/8" polyacrylate with terrazzo topping. Chip sizes #0, 1 & 2.	4-1/2 lbs. PSF.	Architects should design structural inset expansion plates between areas where major movement is anticipated.

BASIC TERRAZZO SYSTEMS INFORMATION AVAILABLE TO FIT VARIABLE JOB CONDITIONS

System	Description	Advantages	Thickness	Weight	Dividers
Sand Cushion	A cement matrix topping over underbed/screed with wire reinforcing, isolation sheet, and sand layer system for interior floor use. This is considered by many as the premier cement based system.	Due to the underbed's depth, wire mesh reinforcing and sand layer, it will accommodate minor substrate defects and resist mirroring to the surface.	2-1/2" to 3" including a 1/2" terrazzo topping.	25-30 lbs. PSF.	The position of vertically embedded divider strips is essential to performance, serving a dual function: a control for anticipated contraction and an aesthetic enhancement in separating colors. Squares of 4'x4' or less on centers are ideal – rectangles of no more than 25 square feet (aspect ratio maximum 1.5:1) are next best. Architects should design structural inset expansion plates between areas where major movement is anticipated.
Rustic	Terrazzo with a non-ground, textured surface, commonly for exterior use. This system is available with Sand Cushion, Bonded, and Monolithic.	Infinitely variable textures, colors, and patterns may be created in a weather-resistant, skid resistant deck surface.	1/2" to 6" including a 1/2" terrazzo topping.	Dependent on system selected	Temporary wood strips are used, and then replaced by a pourable sealant inserted into the joint.
Precast	Prefabricated custom units for flat or coved base work, stair treads & risers, stringers, planters, benches, wall panels.	Virtually unlimited uses.	Custom finish Contact your local NTMA supplier/manufacturer		

Customary Aggregate Sizes for Terrazzo Toppings

Cement	No. 1 and 2	(1/2 inch nominal thickness)
Epoxy	No. 0, 1 and 2	(3/8 inch nominal thickness)
Epoxy	No. 0 and 1	(1/4 inch nominal thickness)
Polyacrylate	No. 1 and 2	(3/8 inch nominal thickness)
Venetian	No. 1, 2, 3, 4 and 5	(5/8 inch nominal thickness)

Price factors include: 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.

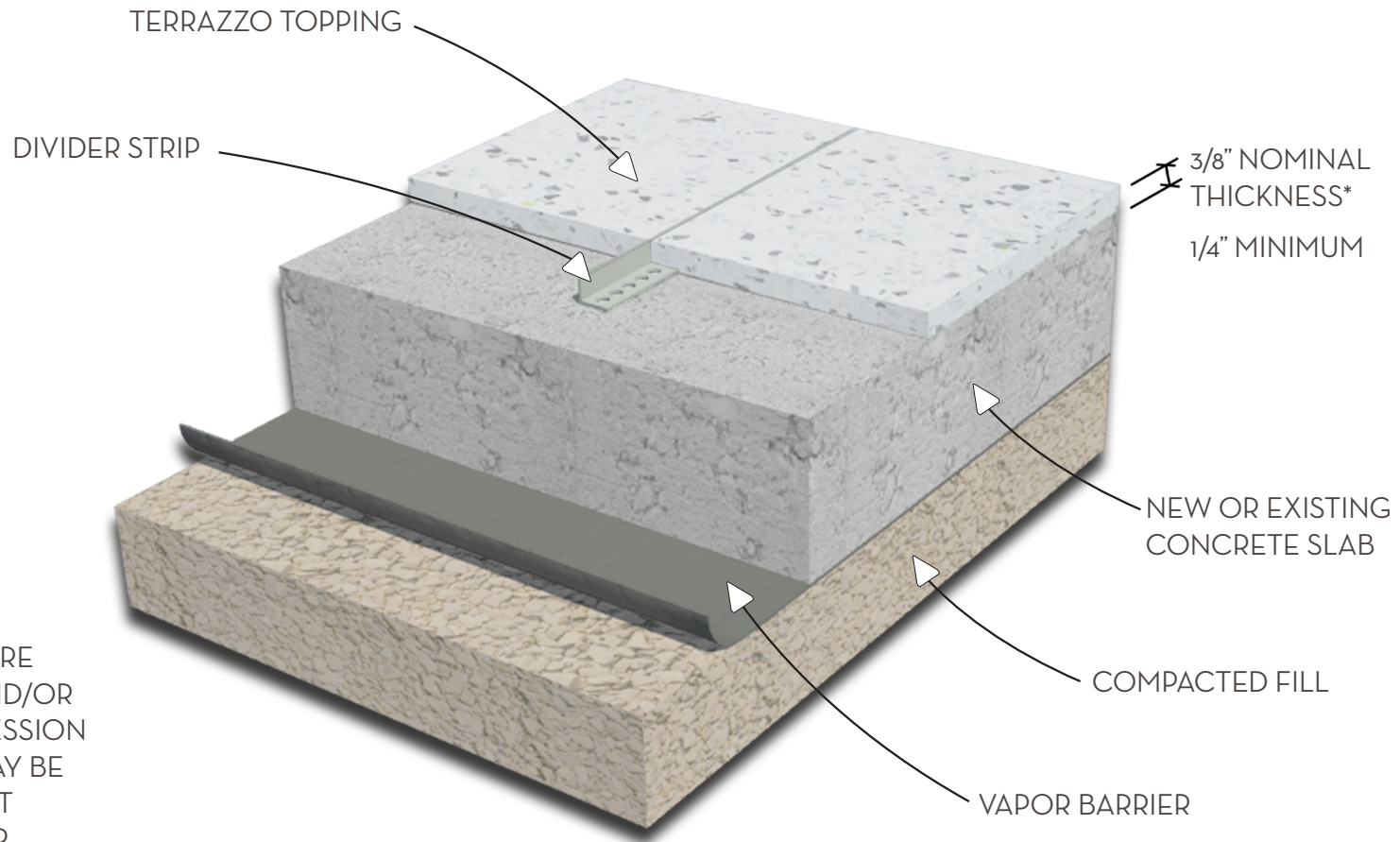
NTMA Aggregate Gradation Standards

Aggregates are graded by number according to size in accordance with standards adopted by producers.

Number	Passes Screen (in inches)	Retained on Screen (in inches)
0	1/8	1/16
1	1/4	1/8
2	3/8	1/4
3	1/2	3/8
4	5/8	1/2
5	3/4	5/8

EPOXY TERRAZZO

SYSTEM OVERVIEW NOT TO SCALE



(NOTE: MOISTURE MEMBRANE AND/OR CRACK SUPPRESSION MEMBRANE MAY BE REQUIRED - NOT SHOWN. VAPOR BARRIER REQUIRED FOR SLAB ON GRADE)

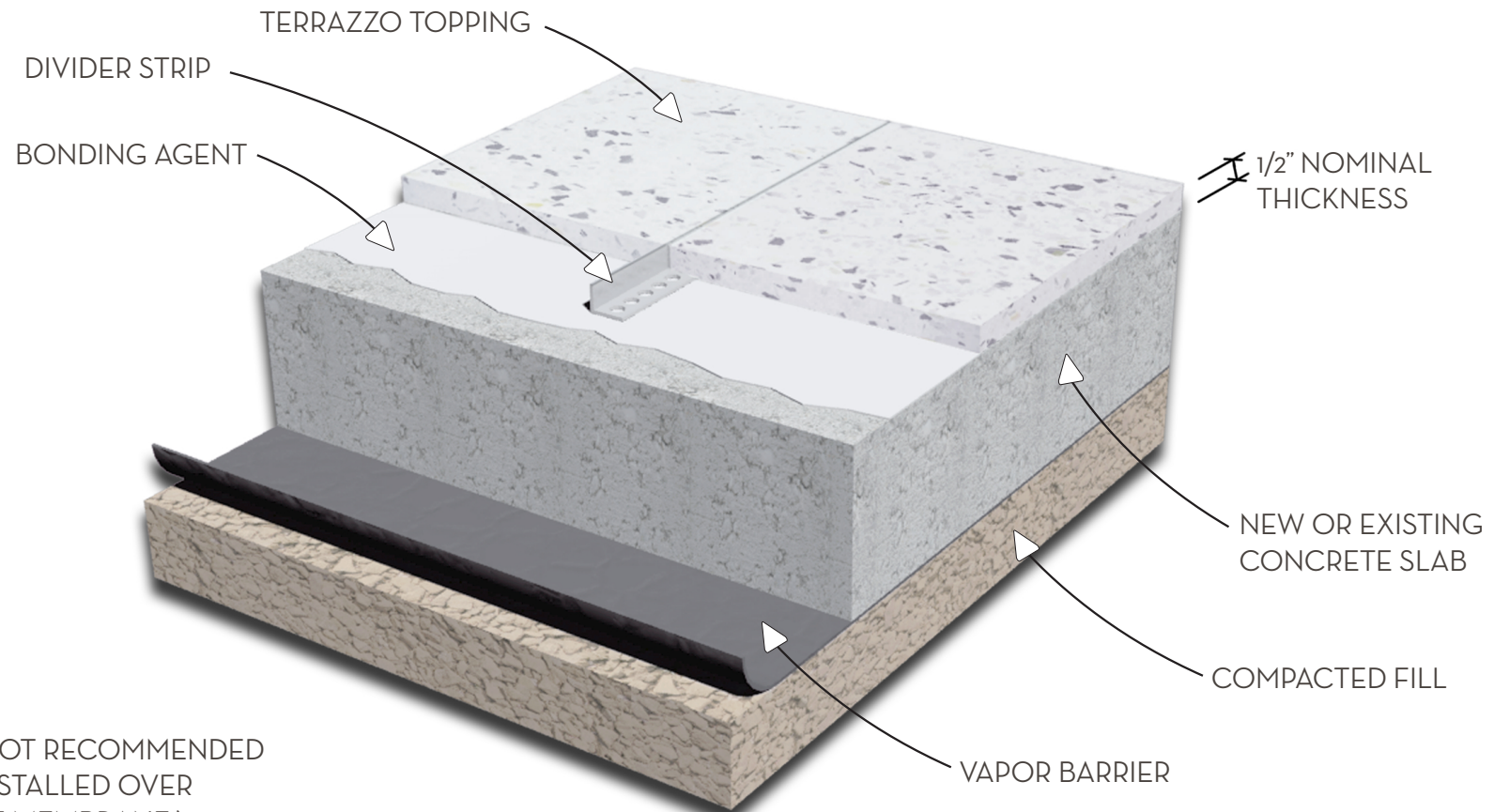
*Optional thickness - 1/4" nominal thickness utilizing #1 and #O aggregate.



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MONOLITHIC TERRAZZO

SYSTEM OVERVIEW
NOT TO SCALE



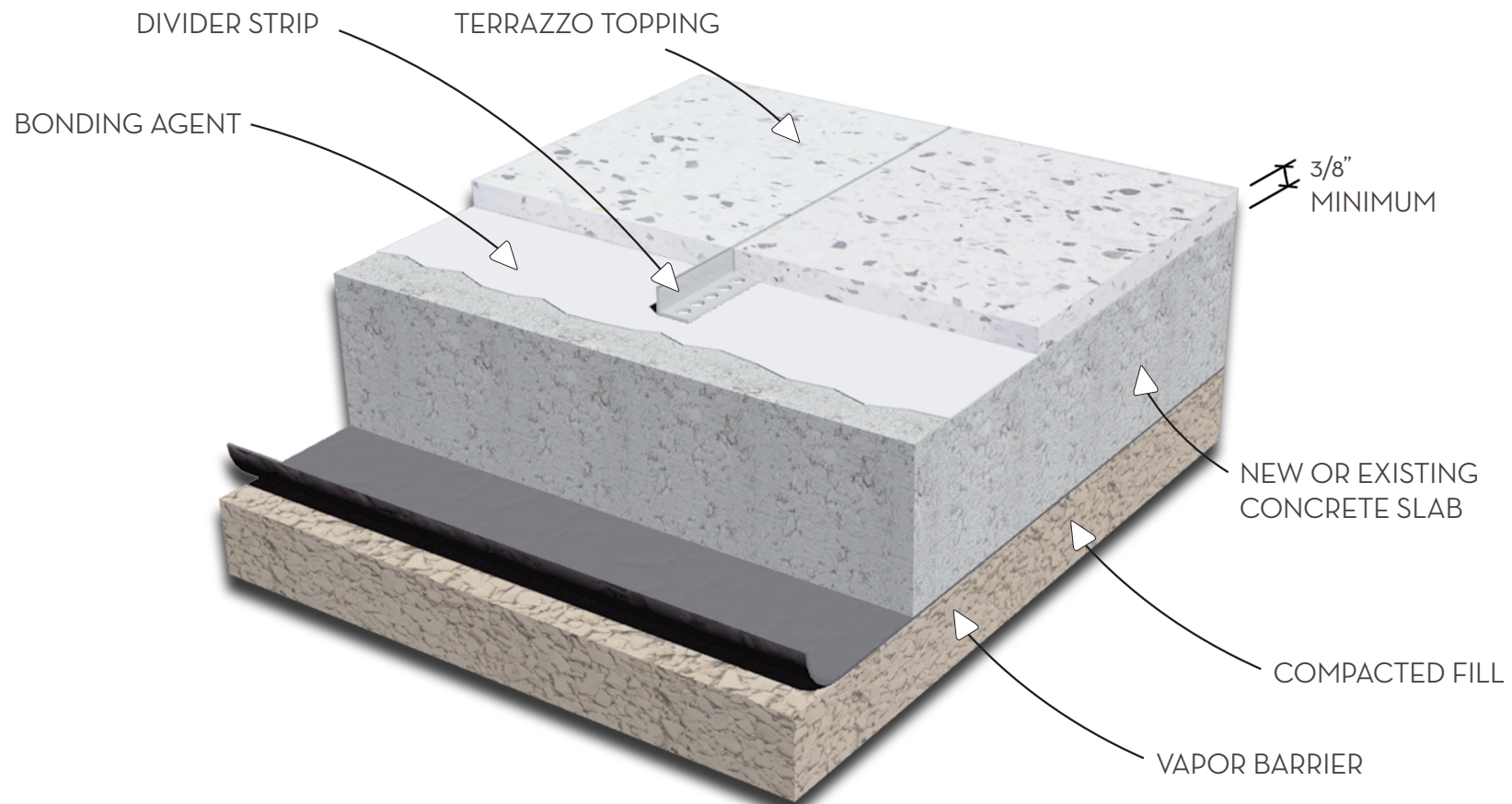
(NOTE: NOT RECOMMENDED
TO BE INSTALLED OVER
FLEXIBLE MEMBRANE.)



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POLYACRYLATE TERRAZZO

SYSTEM OVERVIEW
NOT TO SCALE

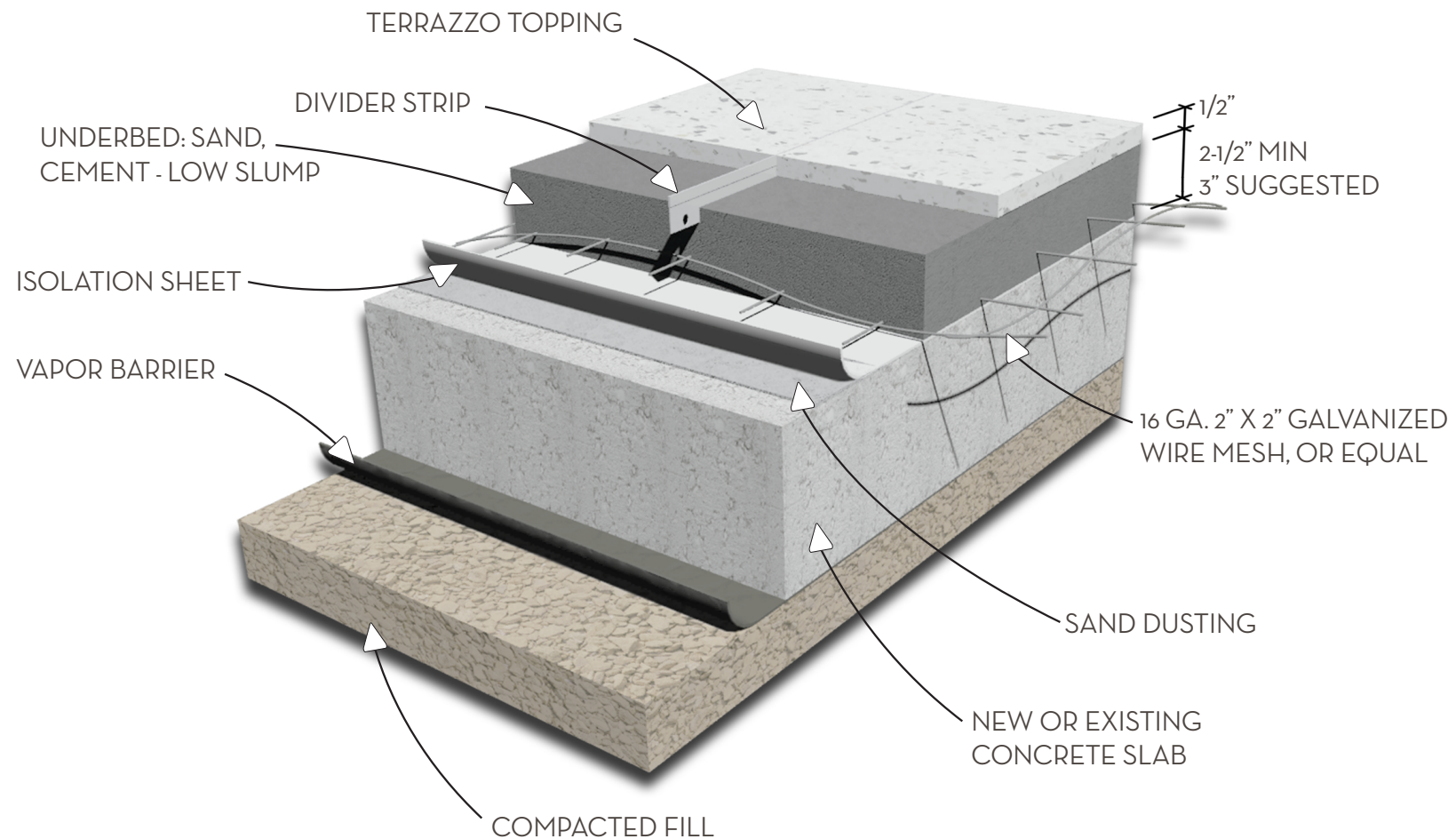


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SAND CUSHION TERRAZZO

SYSTEM OVERVIEW

NOT TO SCALE

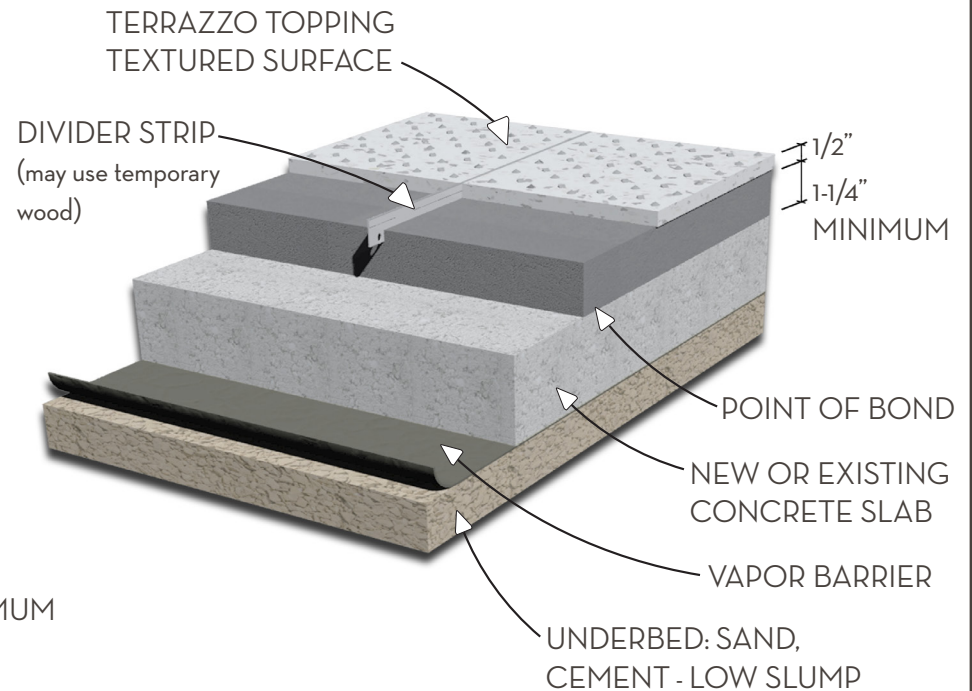


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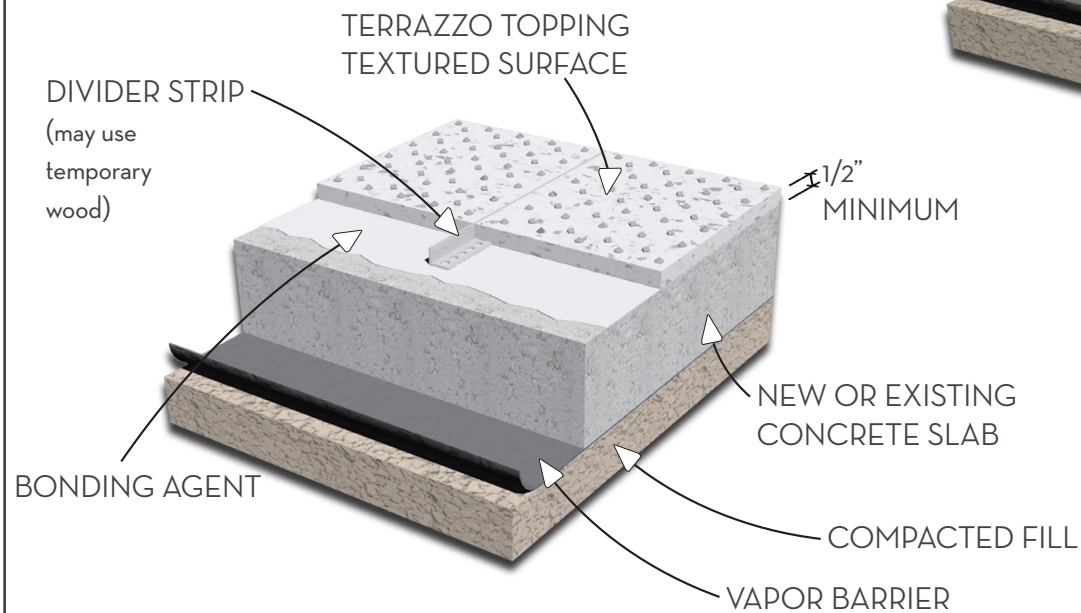
RUSTIC TERRAZZO

SYSTEM OVERVIEW NOT TO SCALE

BONDED RUSTIC



MONOLITHIC RUSTIC



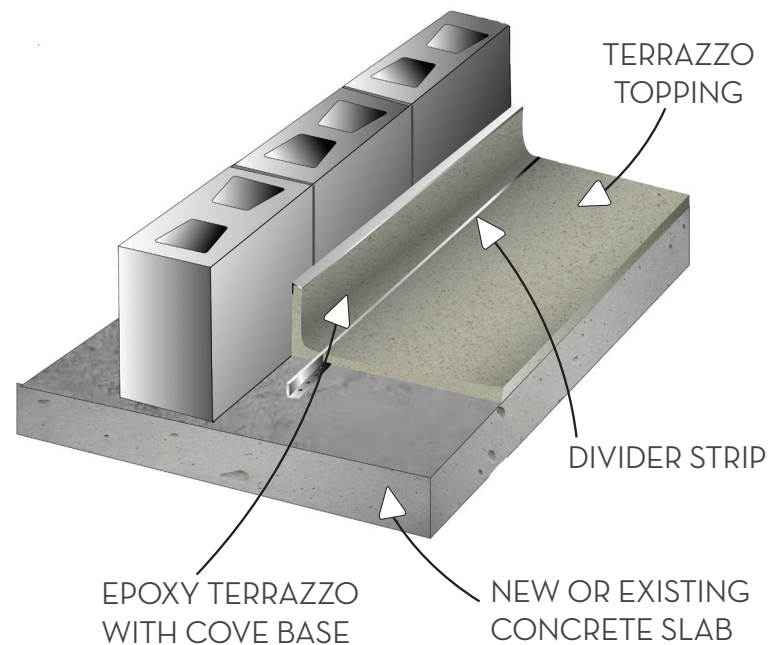
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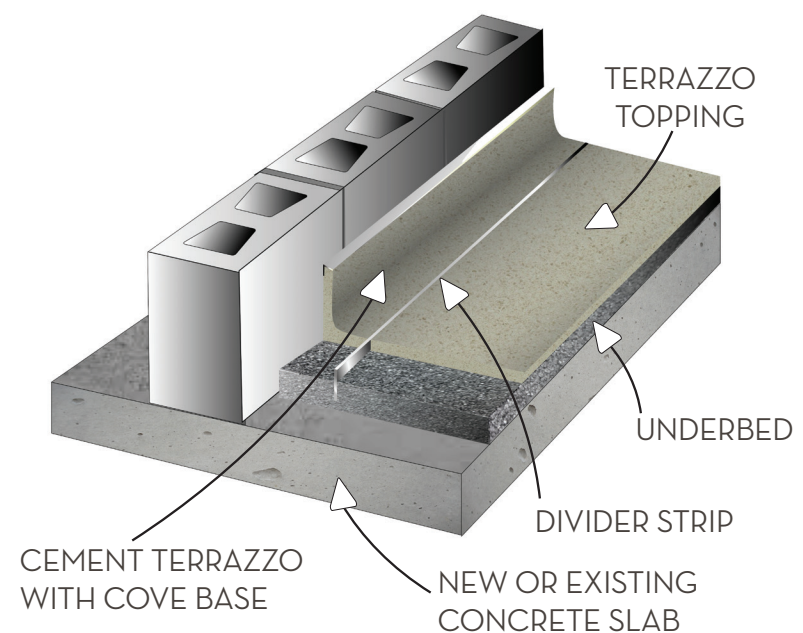
POURED IN PLACE BASE TERRAZZO

SYSTEM OVERVIEW
NOT TO SCALE

EPOXY BASE



CEMENT BASE

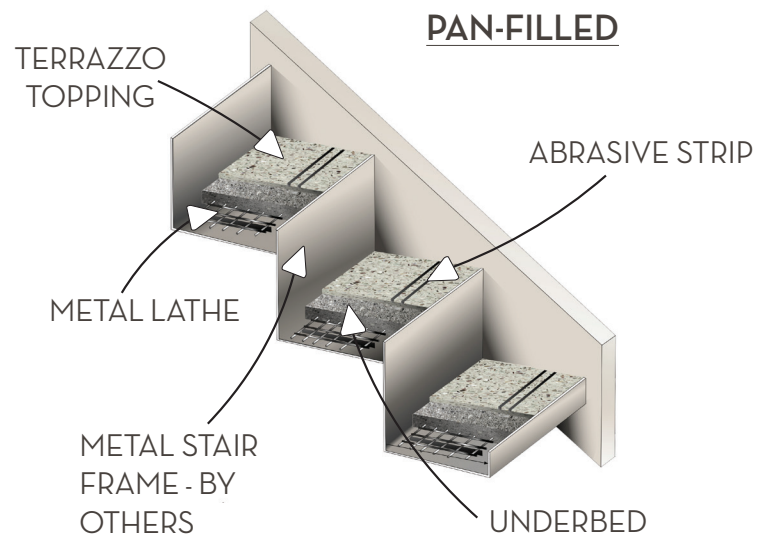
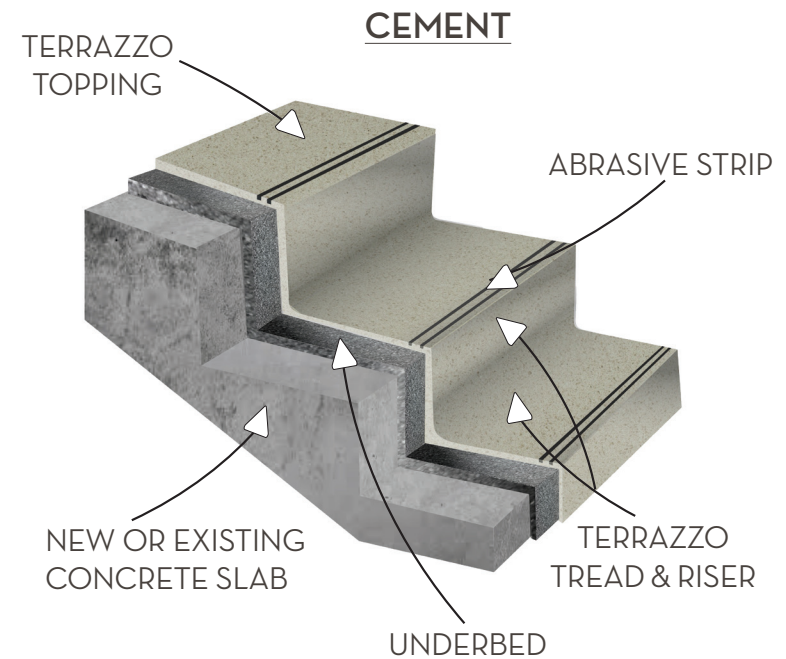
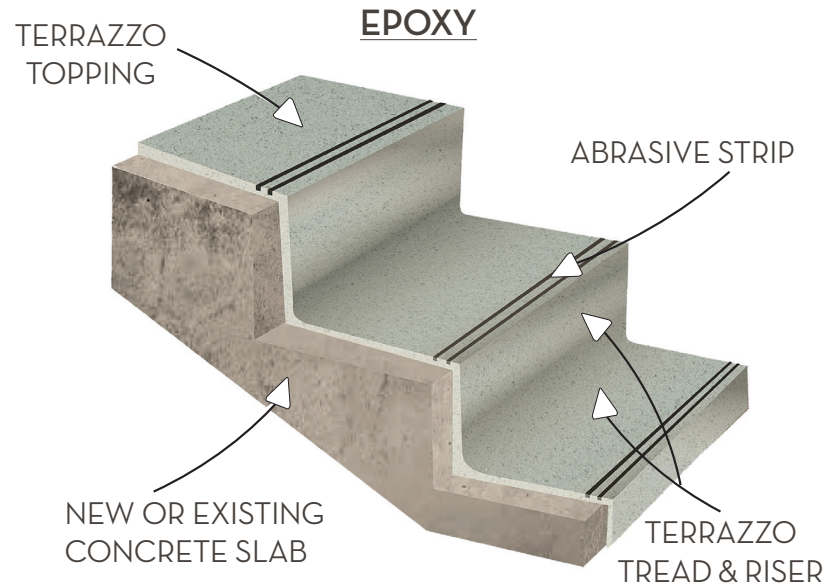


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POURED IN PLACE STAIRS TERRAZZO

SYSTEM OVERVIEW

NOT TO SCALE

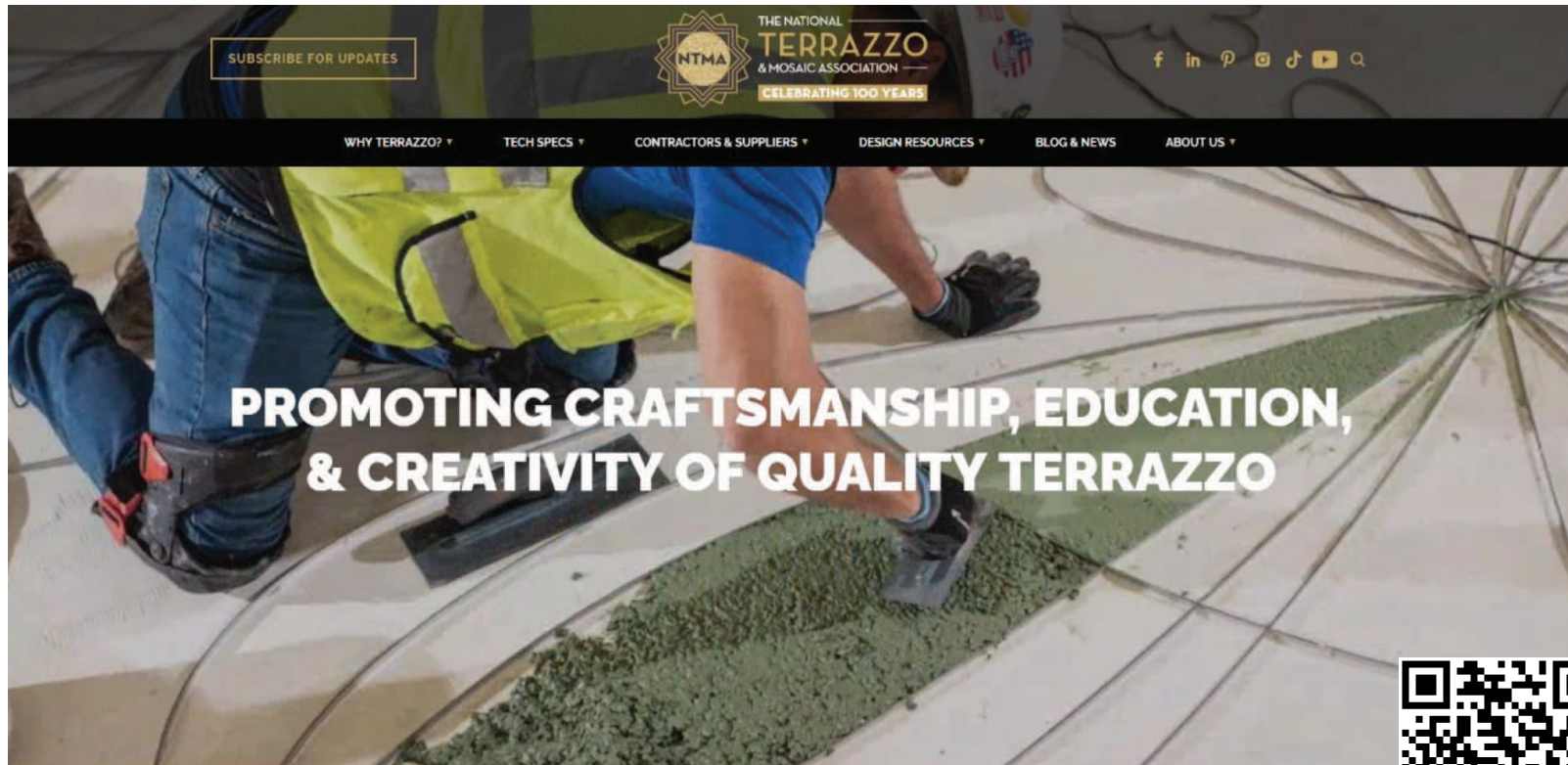


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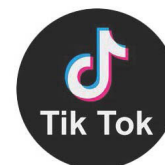
CELEBRATING 100 YEARS

Terrazzo Specifications & Design Guide

Below is the screenshot on our website to the updated product specifications.
Word, PDF (with or without LEED) and DWG-CAD ready.



You can find us on:



TERRAZZO..... A BRIEF HISTORY

Terrazzo descended directly from simplified forms of centuries-old styles of marble mosaics that were used in Venice by the mid-16th century. Today's highly evolved terrazzo is an environmentally friendly material that combines extraordinary design potential, optimum durability and low maintenance. Terrazzo is the lowest cost flooring material available based on its life cycle.

Green from the Beginning

Terrazzo was created when resourceful Venetian mosaic workers discovered a way to reuse marble remnants. With off-size chips, they began to build terraces around their living quarters.



Terrazzo Grinders & Finishers...up to 1920

Techniques for leveling these surfaces progressed from rubbing with a stone by hand, to the development of a long-handled, weighted grinding stone, called a galera.

The first sealer for terrazzo was discovered when workers noticed that a coating of goat milk brought out the rich colors and sheen of the marble.

The Immigration of an Industry

The terrazzo and mosaic industry in 16th century Italy was predominantly made up of craftsmen from the Friuli region. This industry has remained remarkably intact, held by the families from this area through many generations and through the shifting of the entire industry to North America.

The first terrazzo in the US was laid by Italian craftsmen in 1890 in the Vanderbilt residence on Fifth Avenue in New York. At that time, mosaics had also been recently introduced in the US, and were generally preferred over terrazzo.

Then, between 1900 and 1915, three million Italians immigrated to the U.S. Terrazzo and mosaic workers, because their work was so highly skilled and valued, were regarded as the aristocracy of the immigrant labor force. The terrazzieri, as these workers were called, were regarded as true artists: they jealously guarded the secrets of their craft, handing them down from father to son. These family businesses built a powerful network of firms that expanded the terrazzo trade and dominated the market across the US.

Terrazzo in the 1920s: Ready for Prime Time

In the post-World War I era, terrazzo became a flooring of choice in the US, suddenly overtaking and replacing the use of marble mosaics, for several reasons.

Architects in the '20s were the first to recognize the vast design potential of terrazzo. For the smooth curvilinear Art Deco/Modern styles of the period, terrazzo happened to be the ideal medium.

Furthermore, the invention of the electric grinder in 1924 brought about a finer finish, greater speed and accuracy and lowered costs, all contributing to the spread of terrazzo all over the US.

Many of the country's most noteworthy buildings of the day, stunning examples of classic design, craftsmanship and durability, were built with terrazzo. These include the Empire State Building, Radio City Music Hall and Frank Lloyd Wright-designed Solomon R. Guggenheim Museum.

Also in 1924, terrazzo and mosaic contractors from all over the US created the National Terrazzo and Mosaic Contractors Association, today known as the National Terrazzo and Mosaic Association, Inc.

Divide and Conquer: Functional Beauty

Yet another mid-20s advance in terrazzo came with the availability of brass divider strips, which made possible the creation of highly artistic and intricate patterns and designs in terrazzo floors. The early forms of terrazzo divider strips, beginning with wood and evolving to marble, zinc, metal and even plastic, have allowed for expansion and contraction of the surface to prevent cracking.

Limitless Colors, Ultimate in Design & Performance

In more recent years, new developments with epoxies, polyesters, latex and acrylics have continued to make terrazzo ever more cost-effective, high functioning and versatile. The spectrum of colors is now unlimited. The newer thin-set and epoxy-based terrazzo options are less labor intensive with greater design flexibility. Rustic terrazzo is a uniformly textured surface designed for exterior use in which the matrix is depressed to expose the chips.



Terrazzo Grinders after 1920

For More Information Please Call:
The National Terrazzo & Mosaic Association
800.323.9736 Fax: 888.362.2770
www.ntma.com info@ntma.com



Spokane's Federal Building and U.S. Post Office - 1909



Tacoma Union Station - 1911



Pioneer Courthouse - 1905

HISTORY LESSONS:

*Life
Cycle for
a Lifetime*

Original
Terrazzo
100 years
strong in
historic
courthouses



In Washington, Spokane's Federal Building and U.S. Post Office celebrated 100 years in 2009, and Tacoma Union Station in 2011. In Oregon, Portland's Pioneer Courthouse boasts terrazzo floors dating from 1905.



One of the lessons the history of these building teaches us is the value of using materials that last.



Today, use of terrazzo makes the same sense as it did in the day of these historic courthouses, and even more because of the awareness now of the environmental impact of building choices.



One of the earliest, original recycling ideas, terrazzo began as the creative reuse of leftover chips of marble some 500 years ago in Italy. Terrazzo was green before green was trendy.



Widely considered the most historically significant building in the Pacific Northwest, Pioneer Courthouse in Portland was completed in 1875. The second oldest courthouse west of the Mississippi, it's also the oldest federal building in the region.



Unique mosaics - the only historic mosaics in a four-state area of historic federal buildings-adorn the 1910 vestibule of Spokane's Federal Building and U.S. Post Office.



Today's trends are back to more permanent, forward-looking building standards and greater initial investment in building well to conserve resources long-term. The concept of green is in part just a new way of talking about going back to the use of what has proven to endure and perform.

NTMA TERRAZZO SYSTEMS REFERENCE GUIDE SPONSORS - TERRAZZO CONTRACTORS

ALABAMA

ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
Athens, GA 30607
v.706.548.6720
f.706.354.8460
email: reuben.adams@adamstiletterrazzo.com

DAVID ALLEN COMPANY
5541 Powder Plant Lane
Bessemer, AL 35022
v.205.322.9910
f.205.322.9936
email: haroldwaid@davidallen.com
website: www.davidallen.com

ALASKA

NORTH AMERICAN TERRAZZO, INC.
501 South Lucile Ste. 100
Seattle, WA 98108
v.206.762.2803
f.206.762.2409
email: paul@naterrazzo.com
website: www.naterrazzo.com

ARKANSAS

AMERICAN TERRAZZO COMPANY LTD.
309 Gold Street
Garland, TX 75042
v.972.272.8084
f.972.276.4736
email: brent@americanterrazzo.com
website: www.americanterrazzo.com

CALIFORNIA

AMERICAN TERRAZZO COMPANY
36 Wood Street
San Francisco, CA 94118
v.415.921.1862
f.415.921.0724
email: dave@americanterrazzo.com
website: www.americanterrazzo.net

ASSOCIATED TERRAZZO CO. - AEC*
1991 Oakdale Avenue
San Francisco, CA 94124
v.415.641.1995
f.415.641.1996
email: epl@associatedterrazzo.com
website: www.associatedterrazzo.com

CORRADINI CORP. - AEC*

2970 Airway Avenue
Costa Mesa, CA 92626
v.323.221.3191
f.323.221.0188
email: chrisc@corradinincorp.com
website: www.corradinincorp.com

HERMOSA TERRAZZO

3742 West Century Blvd. Ste. 7
Inglewood, CA 90303
v.424.394.4503
email: adam@hermosatterrazzo.com
website: www.hermosatterrazzo.com

T.B. PENICK & SONS - AEC*

15435 Innovation Drive
San Diego, CA 92128
v.800.239.3046
f.858.558.1881
email: jasona@tbpenick.com
website: www.tbpenickcs.com

TOP END TERRAZZO

10755 Sherman Way Unit 7
Sun Valley, CA 91352
v.800.557.0833
f.818.503.1283
email: ro84@topendterrazzo.com
website: www.topendterrazzo.com

COLORADO

COLORADO DESIGN, INC.
TILE AND TERRAZZO
7230 Gilpin Way, Ste. 220
Denver, CO 80229
v.303.288.9688
f.303.286.1126
email: dan@cdtat.com
website: www.coloradotileandterrazzo.com

CONNECTICUT

DePAOLI MOSAIC COMPANY
11 Springdale Avenue
Canton, MA 02021
v.781.562.1596
f.781.562.1594
email: lcarrio@depaolimosaic.com
website: www.depaolimosaic.com

ZONCA TERRAZZO AND MOSAIC

100 Business Park Drive
Armonk, NY 10504
v.718.655.4040
email: bill@zoncaterrazzo.com
website: www.zoncaterrazzo.com

FLORIDA

ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
Athens, GA 30607
v.706.548.6720
f.706.354.8460
email: reuben.adams@adamstiletterrazzo.com

DAVID ALLEN COMPANY

2881 E. Oakland Park Blvd. Ste. 318
Ft. Lauderdale, FL 33306
v.954.315.1749
c.754.224.8377
email: edrappold@davidallen.com
website: www.davidallen.com

STEWART-MELLON COMPANY

5101 E. Hillsborough Avenue
Tampa, FL 33610
v.813.621.3577
f.813.620.1119
email: markn@stewardmellon.com
website: www.stewardmellon.com

GEORGIA

ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
Athens, GA 30607
v.706.548.6720
f.706.354.8460
email: reuben.adams@adamstiletterrazzo.com

BONITZ, INC.

3719 Benchmark Drive
Augusta, GA 30909
v.706-941-2499
email: amandarodgers@bonitz.com
website: www.bonitz.com

UNITED ENTERPRISES

3131 Verona Ave.
Buford, GA 30518
v.770.904.6984
f.770.904.6988
email: derek@unitedei.com
website: www.unitedei.com

WILLIAMS TILE & MARBLE CO.

1870 South Cobb Industrial Blvd.
Smyrna, GA 30082
v.770.432.2201
f.770.436.7466
email: gsweetin@williamstileandmarble.com
website: www.williamstileandmarble.com

HAWAII

FLOOR SOLUTIONS
P.O. Box 1586
Woodinville, WA 98072
v.360.805.9911
f.360.805.9922
email: kyle@floorsolutions.com
website: www.floorsolutions.com

NORTH AMERICAN TERRAZZO, INC.

501 South Lucile Ste. 100
Seattle, WA 98108
v.206.762.2803
f.206.762.2409
email: paul@naterrazzo.com
website: www.naterrazzo.com

IDAHO

FW SPECIALTIES
6915 South 700 West
Midvale, UT 84047
v.801.566.1008
f.801.566.1064
email: adam@finn-wall.com
website: www.fwspecialties.com

NORTH AMERICAN TERRAZZO, INC.

501 South Lucile Ste. 100
Seattle, WA 98108
v.206.762.2803
f.206.762.2409
email: paul@naterrazzo.com
website: www.naterrazzo.com

ILLINOIS

AMICI TERRAZZO
1522 Jarvis Avenue
Elk Grove Village, IL 60007
v.847.290.9998
f.847.290.9980
email: amici@amiciterrazzo.com
website: www.amiciterrazzo.com

JOHN CARETTI & CO.

7831 North Nagle Avenue
Morton Grove, IL 60053
v.847.581.0017
f.847.965.7841
email: crakow@krezgroup.com
website: www.krezgroup.com

MENCONI TERRAZZO LLC

235 James Street
Bensenville, IL 60106
v.630.238.8275
f.630.238.8263
email: info@menconiterrazzo.com
website: www.menconiterrazzo.com

MIDWEST TERRAZZO, INC.

4010 E. Eichel Ave.
Evansville, IN 47715
v.812.476.6848
f.812.477.9811
email: graham@mwterrazzo.com
website: www.mwterrazzo.com

ILLINOIS

MISSOURI TERRAZZO COMPANY
5211 Northrup Avenue
St. Louis, MO 63110
v.314.361.8090
f.314.361.3832
email: paul@missouriterrazzo.com
website: www.missouriterrazzo.com

NORTHERN ILLINOIS TERRAZZO & TILE COMPANY

1125 North Second Street
Rockford, IL 61107
v.815.964.8541
f.815.965.5515
email: john@niterrazzo.com

Full NTMA Membership Roster at www.ntma.com (AEC* - Accredited Education Contractors)

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INDIANA

BLAKLEY CORPORATION
8060 East 88th Street
Indianapolis, IN 46256
v.317.576.8314
f.317.576.8373
email: johnblakley@blakleys.com
website: www.blakleys.com

MIDWEST TERRAZZO, INC.
4010 E. Eichel Ave.
Evansville, IN 47715
v.812.476.6848
f.812.477.9811
email: graham@mwterrazzo.com
website: www.mwterrazzo.com

VICTORY SURFACES
11201 USA Parkway Ste. 300
Indianapolis, IN 46037
v.317.914.7740
email: tketchum@victorysurfaces.com
website: www.victorysurfaces.com

IOWA

DeMARCO BROTHERS COMPANY
1324 Leavenworth Street
Omaha, NE 68102
v.402.341.7349
f.402.341.0102
email: demarcobros@gmail.com

WISCONSIN TERRAZZO & TILE, INC.
555 Braund Street
Onalaska, WI 54650
v.608.779.5010
f.608.779.9444
email: jason@wisconsinterrazzo.com
website: www.wisconsinterrazzo.com

KANSAS

DESCO COATINGS, INC.
19890 W. 156th Street
Olathe, KS 66062
v.913.782.3330
f.913.782.0066
email: info@descocoatings.com
website: www.descocoatings.com

KENTUCKY

MARTINA BROS. CO., INC.
300 Scott Street
Lexington, KY 40508
v.859.255.3602
f.859.255.2075
email: mario@martinabros.com
website: www.martinabros.com

MIDWEST TERRAZZO, INC.
4010 E. Eichel Ave.
Evansville, IN 47715
v.812.476.6848
f.812.477.9811
email: graham@mwterrazzo.com
website: www.mwterrazzo.com

ROSA MOSAIC & TILE CO.
4006 South Brook Street
Louisville, KY 40214
v.502.368.5893
f.502.368.5894
email: info@rosamosaic.com
website: www.rosamosaic.com

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v.301.336.7700
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v.718.655.4040
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website: www.zoncaterrazzo.com

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v.269.375.1660
f.269.375.4522
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website: www.grazzini.com

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v.952.746.9060
f.952.746.9059
email: tony@wtgtt.com
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v.913.782.3330
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website: www.missouriterrazzo.com

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v.402.341.7349
f.402.341.0102
email: demarcobros@gmail.com

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website: www.tbpenickics.com

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10755 Sherman Way Unit 7
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v.800.557.0833
f.818.503.1283
email: ro84@topendterrazzo.com
website: www.topendterrazzo.com

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Armonk, NY 10504
v.718.655.4040
email: bill@zoncaterrazzo.com
website: www.zoncaterrazzo.com

NORTH CAROLINA

ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
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v.706.548.6720
f.706.354.8460
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v.919.971.5601
f.919.821.7137
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website: www.davidallen.com

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Charlotte, NC 28217
v.980.259.1306
email: chrisbagale@davidallen.com
website: www.davidallen.com

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WTG TERRAZZO & TILE, INC.
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Burnsville, MN 55337
v.952.746.9060
f.952.746.9059
email: tony@wtgtt.com
website: www.wtgtt.com

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v.216.661.5650
f.216.661.5651
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v.330.533.4125
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Seattle, WA 98108
v.206.762.2803
f.206.762.2409
email: paul@naterrazzo.com
website: www.naterrazzo.com

TOP END TERRAZZO
10755 Sherman Way Unit 7
Sun Valley, CA 91352
v.800.557.0833
f.818.503.1283
email: ro84@topendterrazzo.com
website: www.topendterrazzo.com

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f.412.781.8950
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website: www.allegHENYinstallations.com

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ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
Athens, GA 30607
v.706.548.6720
f.706.354.8460
email: reuben.adams@adamstiletterrazzo.com

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1993 Technology Drive
Charleston, SC 29492
v.843.375.3550
email: joshuaboncosky@bonitz.com
website: www.bonitz.com

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108-A White Oak Lane
Lexington, SC 29073
v.803.926.1040
email: wilmundy@davidallen.com
website: www.davidallen.com

SOUTH DAKOTA

DeMARCO BROTHERS COMPANY
1324 Leavenworth Street
Omaha, NE 68102
v.402.341.7349
f.402.341.0102
email: demarcobros@gmail.com

TENNESSEE

BONITZ, INC.
1922 Old Murfreesboro Pike, Ste. 530
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v.706.941-2499
email: amandarodgers@bonitz.com
website: www.bonitz.com

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4010 E. Eichel Ave.
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v.812.476.6848
f.812.477.9811
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website: www.mwterrazzo.com

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f.770.436.7466
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website: www.williamstileandmarble.com

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website: www.americanterrazzo.com

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v.713.923.8600
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website: www.nationalterrazzo.com

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v.214.637.5200
f.214.637.5210
email: aiorio@sigmamarble.com
website: www.sigmamarble.com

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v.713.649.2434
f.713.649.6141
email: mmarraldo@southerntileterrazzo.com
website: www.southerntileterrazzo.com

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f.210.533.7269
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website: www.veniceartterrazzo.com

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v.806.373.4174
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email: zanchettin.brothers@gmail.com

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v.801.631.4589
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website: www.fwspecialties.com

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ADAMS TILE & TERRAZZO
1101 Old Creek Road Ste. B1
Athens, GA 30607
v.706.548.6720
f.706.354.8460
email: reuben.adams@adamstiletterrazzo.com

BOATMAN AND MAGNANI, INC.
600 Ritchie Road
Capitol Heights, MD 20743
v.301.336.7700
email: rredde@boatmanandmagnani.com

DAVID ALLEN COMPANY
6775 Kennedy Road Ste. 18
Warrenton, VA 20187
v.703.690.4422
f.703.368.1576
email: chriswalker@davidallen.com
website: www.davidallen.com

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733 Blue Crab Road
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v.757.873.0819
f.757.873.8851
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Woodinville, WA 98072
v.360.805.9911
f.360.805.9922
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website: www.floorsolutions.com

NORTH AMERICAN TERRAZZO, INC.
501 South Lucile Ste. 100
Seattle, WA 98108
v.206.762.2803
f.206.762.2409
email: paul@naterrazzo.com
website: www.naterrazzo.com

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BOATMAN AND MAGNANI, INC.
600 Ritchie Road
Capitol Heights, MD 20743
v.301.336.7700
email: rredde@boatmanandmagnani.com

WEST VIRGINIA

ALLEGHENY INSTALLATIONS CO.
1039 North Canal Street
Pittsburgh, PA 15215
v.412.781.7570
f.412.781.8950
email: mt@allegHENYinstallations.com
website: www.allegHENYinstallations.com

WISCONSIN

WISCONSIN TERRAZZO & TILE, INC.
555 Braund Street
Onalaska, WI 54650
v.608.779.5010
f.608.779.9444
email: jason@wisconsinterrazzo.com
website: www.wisconsinterrazzo.com

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Palisades Park, NJ 07650
v.201.645.1814
email: anil.bandari@ariminc.com
website: www.ariminc.com

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v.830.693.4331
f.830.693.2916
email: ccqmarblefalls@aol.com

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v.214.543.8980
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Berkeley, CA 94704
v.510.548.3939
f.510.548.3956
email: elsie@fribel.com
website: www.fribel.com

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167 Hickory Springs Industrial Drive
Canton, GA 30115
v.800.241.0681
f.770.345.6282
email: rkent@kleincoinc.com
website: www.kleincoinc.com

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website: www.kleincoinc.com

TERRAZZO & MARBLE SUPPLY CO.
464 Northgate Pkwy.
Wheeling, IL 60090
v.800.762.7253
f.847.541.7949
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12632 Monarch Street Unit B
Garden Grove, CA 92841
v.714.901.1400
f.714.901.1490
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website: www.tmsupply.com

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6100 Seaforth Street
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v.410.633.6200
f.410.633.6201
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f.770.345.6282
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v.919.231.6200 or 800.849.8849
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website: www.precastterrazzo.com

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v.888.943.4532
email: sales@keyresin.com
website: www.keyresin.com

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v.800.543.7694
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3555 W. 123rd Street
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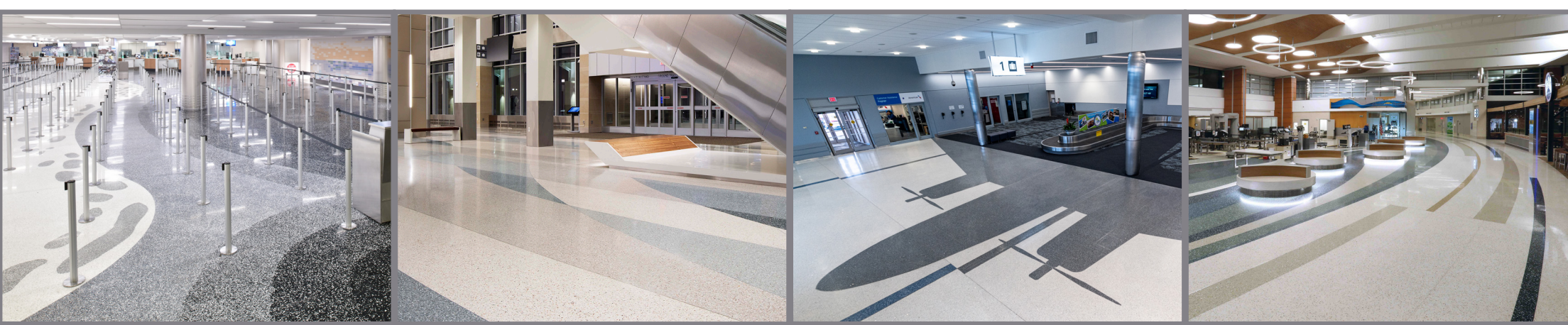
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Terrazzo Design Ideas for Schools

Terrazzo floors last a lifetime! The school seal that your grandmother saw when she started will still be beautiful when your granddaughter comes along. Non-porous terrazzo does not support microbial growth, nor does it allow moisture to accumulate, contributing to a mold-free, healthy environment. This is a floor material that keeps it's school spirit and fights high maintenance costs for generations.





Terrazzo Design Ideas for Airports

Airports are the gateway to the city. Terrazzo can be used to create lasting first impressions while providing a long lasting durable and economical flooring surface. A terrazzo floor will not have grout joints, which allows for smooth, quiet handling of rolling carts and luggage. Terrazzo is arguably the most durable and lowest life cycle cost flooring available today - perfect for high traffic public access buildings such as airports.





Terrazzo Design Ideas for Hospitality

An unlimited color palette, and state of the art water-jet cutting techniques create a visually stunning hospitality environment. Color transitions and design can immediately impact guests by reinforcing a variety of themes and offering navigational clues throughout the building. Terrazzo is anti-microbial, non-porous and easily cleanable with a damp mop and neutral cleaners leaving no harsh odors to irritate guests.

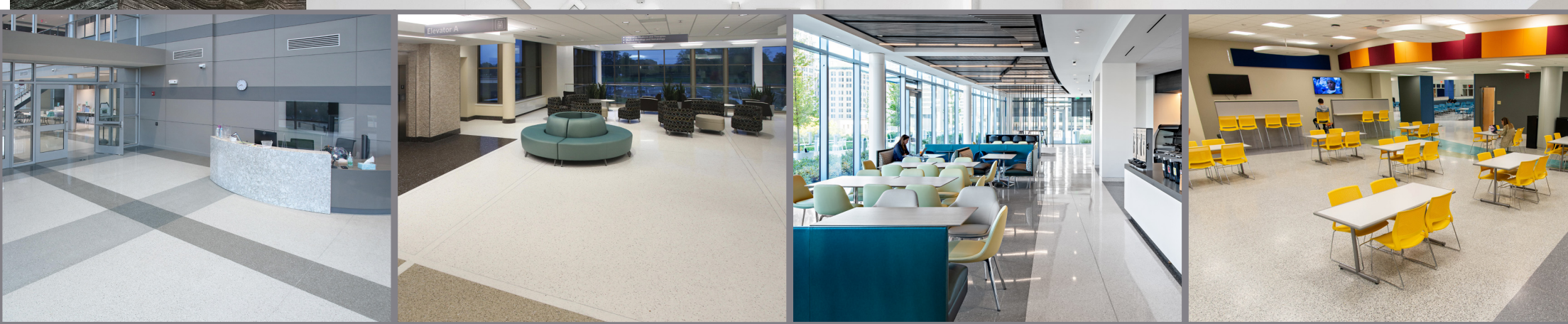




Terrazzo - Healthy Flooring for Medical Facilities

Terrazzo is the ideal solution for maintaining a healthy building. It does not support microbial growth - nor allow moisture to accumulate - which greatly contributes to a mold-free environment. Additionally, terrazzo is comprised of zero VOC material, and exhibits little to no off-gassing over the life of the cured floor. This floor needs only to be cleaned with an environmentally friendly, neutral pH cleanser, which will not irritate sensitive eyes or noses.





Terrazzo Design Ideas for Classic Terrazzo

Over the lifetime of a building, the total cost of maintaining or replacing flooring can multiply as much as 35 times its initial cost. Alternatives like carpet, ceramic tile, vinyl or wood might be less expensive to install, but a classic terrazzo matrix and a practical design can be surprisingly competitive with the added benefit of sustainability and durability. Terrazzo resists microbes and moisture accumulation - essential for a mold-free, healthy environment.





Terrazzo Design Ideas for Stadiums

Terrazzo is the ideal flooring for stadium entrances and corridors. It is extremely durable - a necessity in a building that accomodates millions of fans each season. Terrazzo also has the design capabilities to reflect the team colors, mascots, logo and city. Depending upon the exterior exposure, rustic terrazzo or ground terrazzo can be selected.





Terrazzo Design Ideas for Museums, Libraries, and Cultural Buildings

Terrazzo's design opportunities are well suited to public libraries, museums, and other cultural spaces. The unlimited color palette and ability to create free form shapes and patterns can help define sections and provide directional clues to visitors.

The long life of the terrazzo floor helps minimize costs associated with renovations to public facilities.





Terrazzo Design Ideas for Logos

Terrazzo's exceptional design flexibility lends itself to the most complex logo designs in multiple colors. Intricate custom graphics concentrated in one area make high visual impact affordable within simple floor designs and color palettes. Your logo, mascot or artistic medallion creates an eye-catching entrance for every visitor, while dramatically accenting large spaces and durably reinforcing brand identity or school spirit.



The Care of Terrazzo



Terrazzo floors have **ease of maintenance**, but this does not mean that **NO CARE IS REQUIRED**. Once you understand the care requirements in the early stages of a new terrazzo floor, you lessen possible problems, and recognize the economy of care and the aesthetics of this product. **NTMA terrazzo flooring specifications highly recommend a sealer applied to this surface immediately following the final polishing.**

Sealers help protect the surface and inhibit the penetration of spilled materials upon initial contact with the terrazzo floor. Spills must be cleaned immediately in order to prevent stains caused by repeated or long term exposure. Even standing water can eventually damage some sealers.

As most sealers are low solids liquid material, they do not normally produce a high gloss sheen appearance to the floor surface. When a building is eventually occupied, the terrazzo sealer can be stripped or used as a base and the surface may be retreated as implemented by ownership. The eventual degree of gloss is determined by the particular products selected and the recommended application process. This includes proprietary options.

TAKE THE NECESSARY TIME TO LEARN WHICH TERRAZZO SYSTEM YOU ARE MAINTAINING

There are three types of binders used to anchor marble chips or other aggregate in your terrazzo floor. Originally, and still used, is a Portland cement product; next a polyacrylate modified cement. The most common matrix today is epoxy resin.

All Terrazzo Systems: Contain marble or other types of aggregate materials that have surface exposure. Marble aggregates have a low porosity. Other aggregate types may have little or no porosity.

Portland Cement Systems: The portion of this floor system that most benefits from primary protection is the Portland cement binder. Sealers will also assist protecting the marble chips or other aggregate.

Epoxy Resin Systems: The binder for this terrazzo system is fundamentally non-porous. Sealers assist protecting the aggregate and normally enhance aesthetics of the surface only.

Although each system has the role of anchoring the aggregate into the topping, maintenance procedures are essentially common to all terrazzo installations.

OWNER'S GUIDE FOR THE MAINTENANCE OF TERRAZZO FOR STANDARD FINISHES

MAINTENANCE PRECAUTIONS: Harsh cleaners and sealers can damage terrazzo. Only materials that are neutral pH should be used when scrubbing or mopping floors. Sealers should achieve a slip resistance coefficient of friction rating applicable to code. Water based sealers are most commonly recommended and utilized today. Apply, in one or more coats, in accordance with the instructions of the sealer manufacturer. This can also be followed by a water based finish (dressing) for daily or weekly buffing if a high sheen is desired.

CLEANING PROCEDURES: Neutral cleaners are designed to react only in solution with clean water, mixed in accordance to the manufacturer instructions, and allowed to remain on the floor surface for several minutes. This provides the necessary time for the grime-dissolving action to take place. Then rinse the dirt-laden solution from the surface by squeegee, vacuum or mopping. Rinse with ample clean water. It is important to keep the floor wet during this entire cleaning process so the dirt and cleaning residue does not dry on the surface. Auto-scrubbers are recommended for larger areas.

FAQ "How often must we sweep or scrub this floor?" is answered by the amount of traffic that moves across the floor daily. Daily dust mopping is a requirement in most public buildings. Daily dust mopping removes both the dust and the grit tracked into the building.

The Care of Terrazzo



THE NATIONAL
TERRAZZO
& MOSAIC ASSOCIATION
CELEBRATING 100 YEARS

CUSTODIAN'S GUIDE TO THE PROPER MAINTENANCE OF TERRAZZO

FOLLOW THESE MINIMUM MAINTENANCE SUGGESTIONS TO
KEEP YOUR TERRAZZO FLOOR CLEAN AND LONG-LASTING:

DAILY: DUST MOP - Hand work stubborn stains and scuff marks with neutral cleaner diluted in warm water.

WEEKLY: DAMP MOP LIGHTLY SOILED FLOORS WITH
NEUTRAL CLEANER - Heavily soiled floors should be scrubbed
with a mechanical buffing machine and neutral cleaner. Mop up residue
with clean water before it dries. Allow to dry and buff with a soft dry
brush. Auto-scrubbers are recommended for larger areas.

NOTE: ALLOW YOUR NEUTRAL CLEANER, ONCE APPLIED TO
THE TERRAZZO SURFACE, TIME TO REACT. IT IS DESIGNED TO
LOOSEN FOREIGN MATTER. SEVERAL MINUTES SHOULD BE
ADEQUATE, BUT DO NOT ALLOW SOLUTION TO DRY ON THE
SURFACE.

AS REQUIRED: Strip all old sealer and any finish coats.
Re-seal clean floor.

CAUTION: Before deviation from the instructions,
contact your local NTMA Terrazzo Contractor
for advice. ALWAYS KEEP RINSE WATER,
MOPS & PAILS CLEAN!

DO'S AND DON'T'S FOR MAINTENANCE OF TERRAZZO FLOORING

DO dust mop your floors daily; this not only picks up the dust, but also the grit tracked
into your building. The grit acts as an abrasive on your hard surface floor.

DO use maintenance products designed specifically for terrazzo.

DO scrub new terrazzo floors approximately once or twice a week for the initial two to
three months, as the new construction dust will still be in the air and will eventually be
deposited on your floor.

DO after the initial period, once per week, depending on the amount of foot traffic,
keep your floor clean in appearance. Always rinse your floors well to prevent a build-up
of cleaner residue. Use a dry cotton or microfiber cloth to dry the terrazzo floor surface.

DO allow your neutral cleaner, once applied to the terrazzo surface, time to react as
designed to loosen foreign matter. Several minutes should be adequate, but **DON'T**
allow the cleaning solution to dry on the surface.

DO seal your floors with a water-based sealer in accordance to the sealer
manufacturer's instructions.

DON'T use degreasers, bleach, vinegar, ammonia or other household chemicals.

DON'T use purely surface waxes, or all purpose sealers. Employment of such can
result in slippery surfaces.

DON'T use all purpose cleaners containing water soluble inorganic or crystallizing salts,
harmful alkali or acids. Use of such products could prove harmful to your terrazzo floor.

(Take care if using abrasive disc/pads with proprietary systems so grout is not removed and pinholes exposed.)

2019

(Destinations in Terrazzo)

Setting in Stone the Spirit of Public Art

Bringing together terrazzo with public art gives the artist the capacity to create spaces distinctive from “anytown-anywhere,” artist Teresa Cox said, colored by local character and highly accessible to the public.

(Phoenix Sky Harbor International Airport)

This 24,000-square-foot commissioned public art project illustrates the design flexibility of terrazzo with designs inspired by traditional Navajo pottery and weaving patterns. The dynamic floor’s intense colors, 3D effects and graceful interplay of shapes over patterns are among the project’s many assets.

(Detroit’s Harmonie Park Paradise Valley)

ART . RUSTIC . MURALS

An outdoor installation of rustic terrazzo, featuring historic buildings and public figures, designed by noted muralist Hubert Massey.



Phoenix Sky Harbor International Airport

Boise Airport Terrazzo Art Renovation

Detroit's Harmonie Park/Paradise Valley

Boise Airport Terrazzo Art Renovation

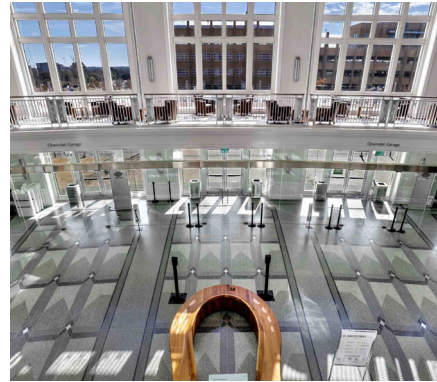
PUBLIC ART PLAYS AN IMPORTANT ROLE BY CONNECTING PEOPLE AND PLACE



National Terrazzo & Mosaic Association
P.O. Box 2605
Fredericksburg, TX 78624
800.323.9736
www.ntma.com
info@ntma.com

Boise Airport Terrazzo Art Renovation

This gorgeous art-in-the-public places mural, “Terra Firma,” is a 25-foot diameter circular map of Idaho and its contiguous states. All divider strips, other than the lettering, were hand-bent on site.





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100 YEARS**

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SYSTEMS REFERENCE GUIDE 2023