

# NEOTERRAZZO®

SEAMLESS TERRAZZO FLOORING



A Timeless Decorative Finish  
With a Modern Twist

*“Architecture should speak of its time and place, but yearn for timelessness.”*

*- Frank Gehry*

# NEOTERRAZZO® FLOORINGS

Created in the 15<sup>th</sup> century in Venice as a low-cost way to surface terraces surrounding the city's homes, Terrazzo became popular during the midcentury era, where it could be found in commercial spaces including airports, cultural institutions, schools, and hotels.

Still appreciated for its durability and low-maintenance, today's Terrazzo is an environmentally friendly material that is easily customizable and can be poured into different patterns and shapes to produce a smooth, uniformly textured surface for floors, walls, stairs, curbs, counter-tops, and even furniture.

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## A TRADITIONAL MATERIAL WITH A MODERN TWIST

Using a variety of aggregates such as marble, quartz, granite, mother-of-pearl, recycled glass, porcelain and mirror chips within a colored matrix, the Colortek® NeoTerrazzo® system can be placed upon a level concrete slab, or used over adequately installed and prepared marine plywood.

New technologies and materials mean NeoTerrazzo® can respond to the needs of the most modern buildings. It is ideal for settings that require a seamless, heavy-duty designer material, that is low-maintenance and hygienic, as its non-porous finish does not support microbial growth, nor allows moisture to accumulate, helping to maintain a germ and mold-free environment.

### KEY PROPERTIES



Seamless



Stain resistant



Anti-bacterial



Scratch resistant



Contains recycled material





# NEOTERRAZZO® DESIGNER TOOLS

## EVERYTHING YOU NEED TO CREATE THE NEXT BIG FLOOR

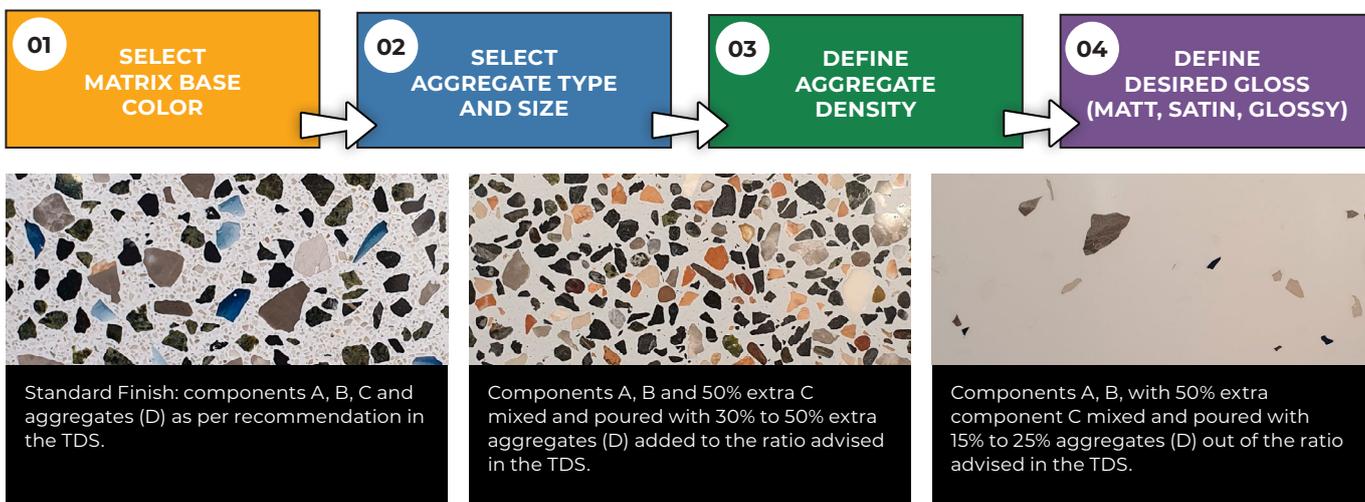
No matter if you are looking to redesign something small, such as a marble bathroom floor, or you are a contractor ready to use NeoTerraZZo® flooring on a massive scale like in an airport, Colortek® has a wide variety of aggregates that can be combined with any of our epoxy coatings colors, including:

- Marble, Granite, and Mother of Pearl.
- Recycled Glass Chips and Synthetics.
- Recycled Chips for green flooring and LEED credits

Chips are graded by number according to size, in conformity with industry standards adopted by the marble producers, allowing you for a quick and easy sample production process.

### EXAMPLES OF POSSIBLE TEXTURES

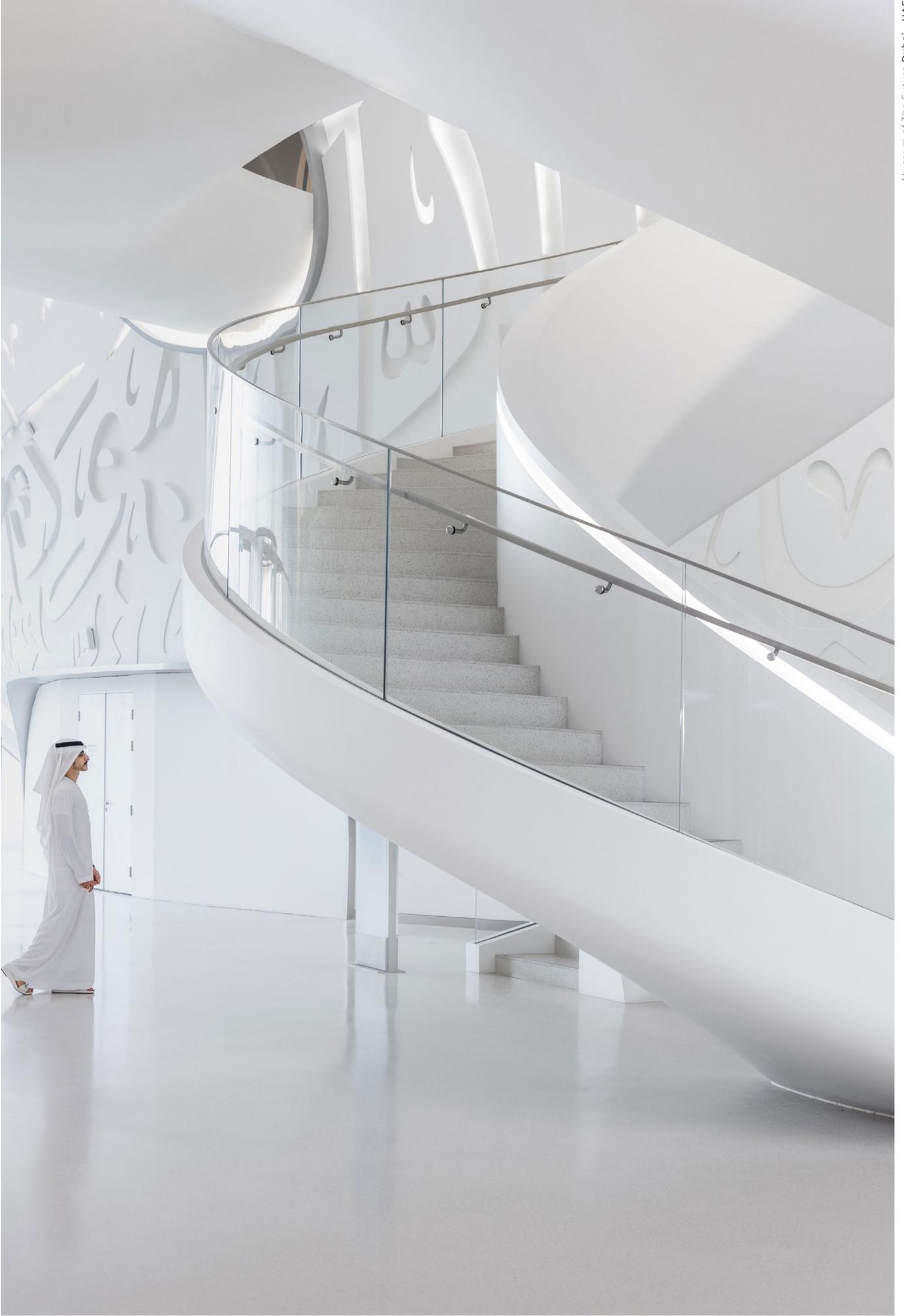
NeoTerraZZo® textures can be customized by varying the ratios of its components – base (A), hardener (B), filler (C), as well as the size, type, and density of the aggregates (D).



AGGREGATES SIZE CHART		
NUMBER	MINIMUM	MAXIMUM
N0	1.5 mm	3 mm
N1	3 mm	6 mm
N2	6 mm	9 mm
N3	9 mm	12 mm
N4	12 mm	16 mm
N5	16 mm	20 mm
N6	20 mm	22 mm
N7	22 mm	25 mm
N8	25 mm	35 mm











Museum of The Future Dubai - UAE

## TONES SHIFTING BETWEEN UNLIMITED COLORS AND TEXTURES

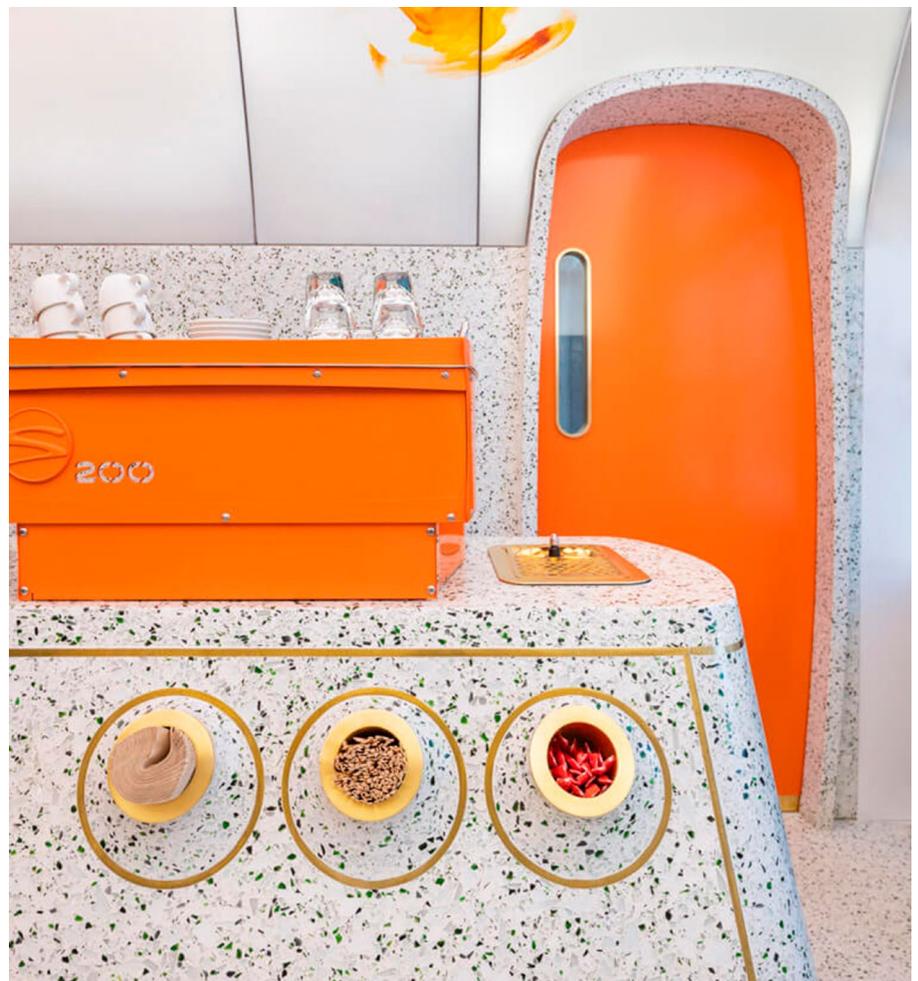
Colortek's NeoTerrazzo® specialty aggregates allow for a graphic reinterpretation of decorative floorings, and to create standard or custom color combinations resulting in a truly unique floor.

Whatever the design requirements might be, we provide the tools needed to experiment with new approaches from planning to installation, ensuring that the final surface will display a tonal range perfect for ambiances that stand out.

## SPECIFICALLY FORMULATED FOR CREATING COUNTERTOPS & FURNITURE

Colortek's NeoTerrazzo® formulation was engineered to allow for ease of application, as well as for the maximum flexibility and versatility needed by designers when creating unique furniture and counters pieces.

These unique physical properties complement the durability, resistance, ease of maintenance, and anti-bacterial properties required by residential, institutional or commercial projects.



Grapes and Dates Dubai - UAE

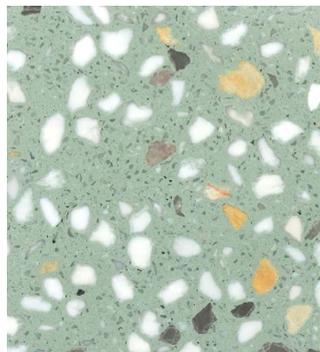


PASTEL

NEOTERRAZZO BROCHURE 10



P 101



P 102



P 103



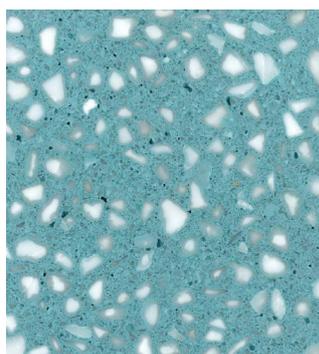
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P 105



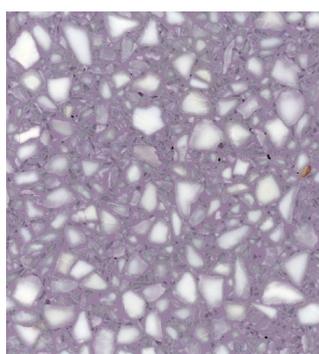
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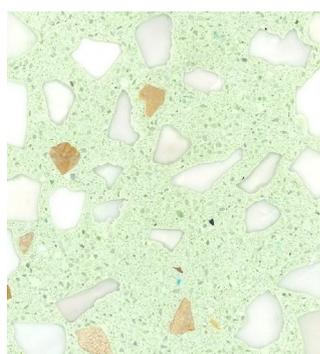
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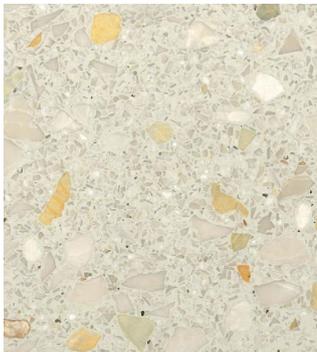
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P 109



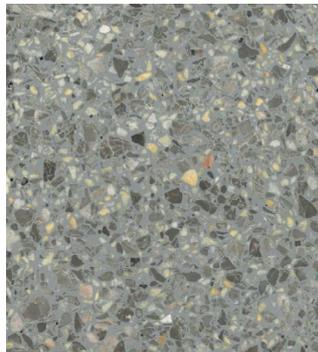
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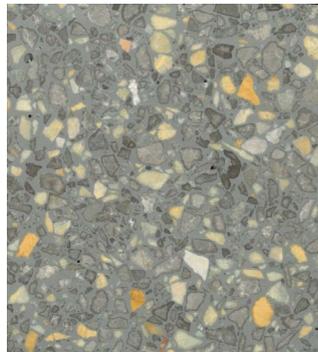
C 201



C 202



C 203



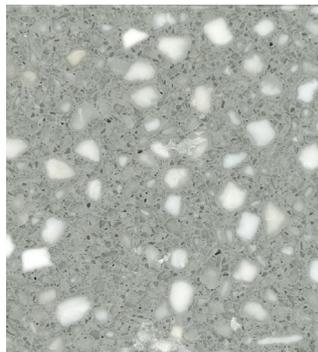
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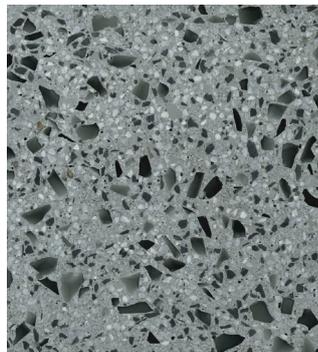
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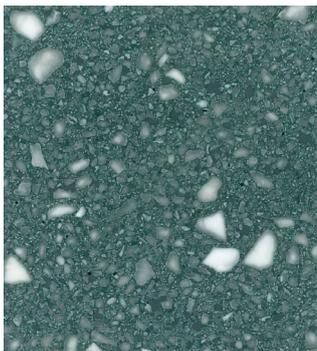
C 206



C 207



C 208



C 209



C 210



C 211



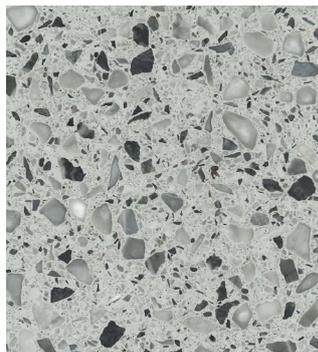
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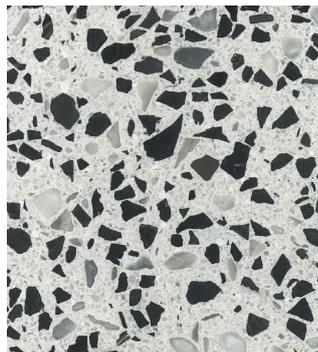
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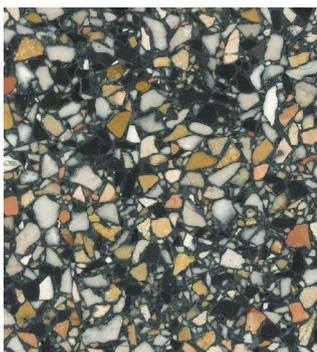
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C 215



C 216



C 217



C 218



C 219



C 220



R 301



R 302



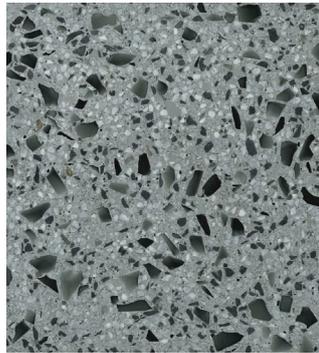
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R 304



R 305



R 306



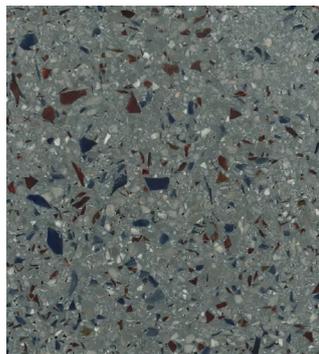
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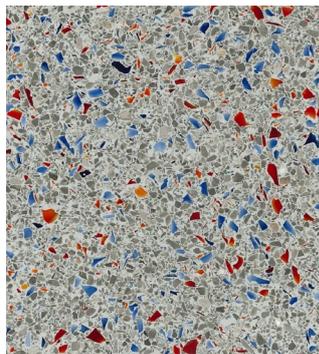
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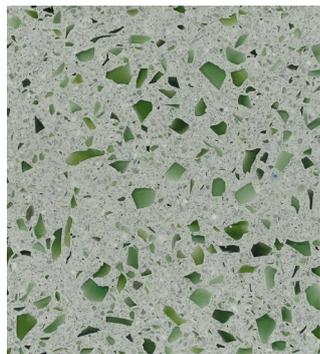
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R 310



R 311



R 312



R 313



R 314



R 315



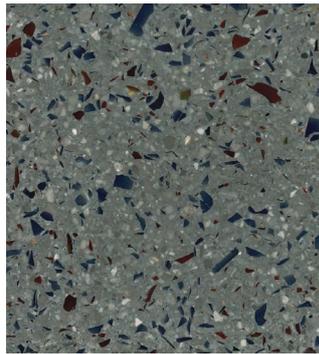
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R 317



R 318



R 319



R 320



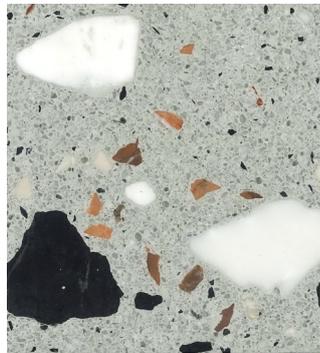
V 401



V 402



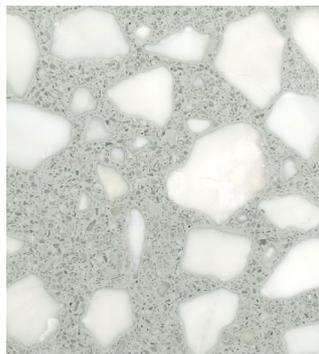
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V 404



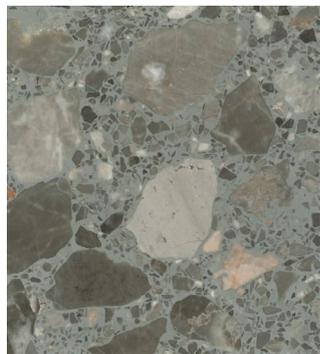
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V 406



V 407



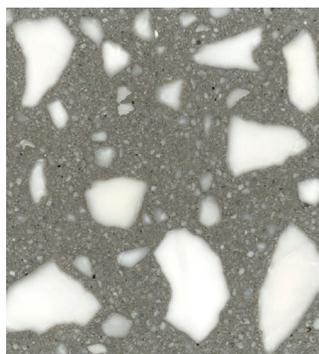
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V 409



V 410



V 411



V 412



V 413



V 414



V 415



V 416



V 417



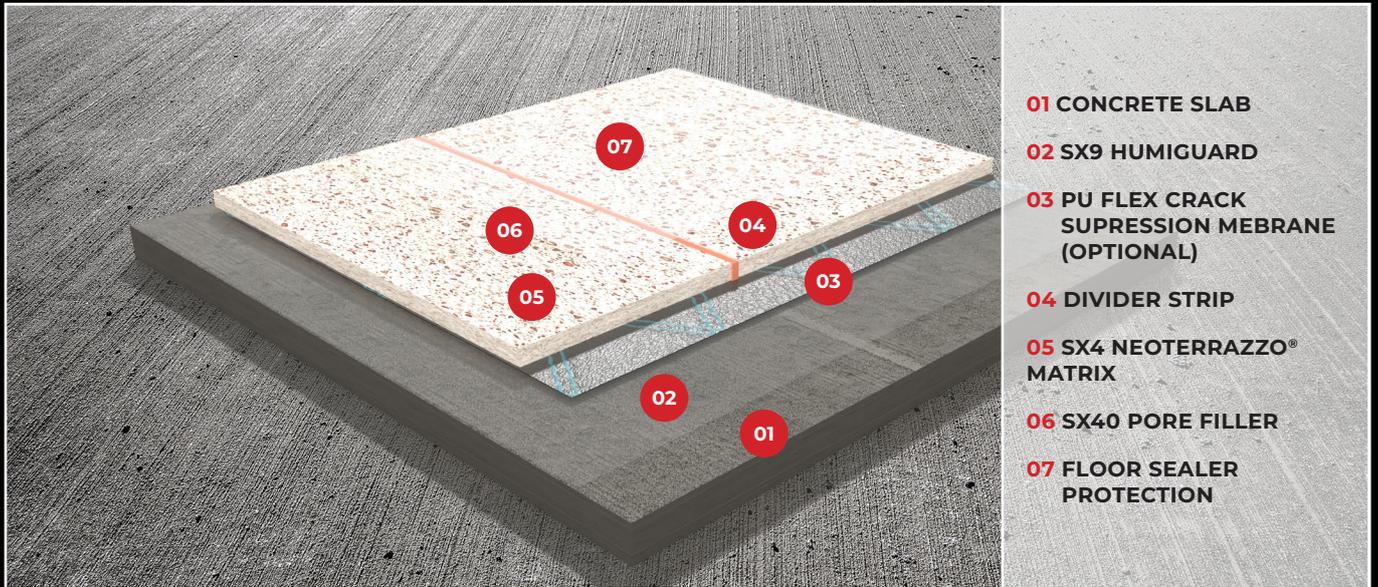
V 418



V 419



V 420



- 01 CONCRETE SLAB**
- 02 SX9 HUMIGUARD**
- 03 PU FLEX CRACK SUPPRESSION MEBRANE (OPTIONAL)**
- 04 DIVIDER STRIP**
- 05 SX4 NEOTERRAZZO® MATRIX**
- 06 SX40 PORE FILLER**
- 07 FLOOR SEALER PROTECTION**

STAGE	PRODUCT	DESCRIPTION
02 – Floor Preparation	- SX9 HumiGuard	Prevention and elimination of moisture problems in the substrate.
	- Fill and Flex	An epoxy-polyurethane mastic, offering the advantages of epoxy hardness and polyurethane flexibility.
	- SX2 FillWell	100% solids epoxy for referencing contraction (saw cuts), isolation and cold joints.
03 – Optional Crack Supression Membrane	- PU Flex + Fiber Mesh	Prevention of substrate cracks transferring through to the finish floor system due to horizontal movement.
04 – Divider Strip	- Aluminum, Brass, or Zinc Strip	Enhance design flexibility and functionality, separate colors and reference construction joints to preserve structural integrity.
05 – Matrix & Aggregates	- SX4 Epoxy NeoTerrazzo®	Binds the chips and strips in place and serves as the canvas of a floor’s design. Custom tinting provides endless color options from which to choose.
	- 314 Terrazzo Concrete	Quite thicker and heavier than epoxy terrazzo, ideal for outdoor usage in patios, swimming pools, walkways, etc.
	Marble, Granite, Mother of Pearl, Recycled Glass Chips and Synthetics, Recycled Chips, etc.	Available in numerous colors and sizes. Coupled with an epoxy matrix, they provide terrazzo chip and texture and increase design possibilities.
06 – Pore Filling	- SX40 Pore Filler	Fill minor holes and seal surface after grinding. (If needed).
07 – Protection	- Floor Sealer or Polylock	Sealing porous and non-porous flooring. Other protective coatings can be used. Refer to TDS.

# DIVIDER STRIP GUIDELINES

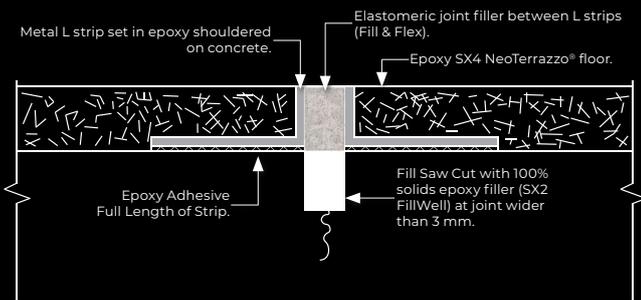
Divider strips are used in Terrazzo flooring to serve two basic needs: Form and Function. Zinc and brass dividers are available for cement terrazzo, while zinc, brass, plastic and aluminum strips are usable with epoxy terrazzo systems.

Aesthetically, divider strips are often the skeleton to the terrazzo floor's design, offering architects and interior designers the ability to create custom designs and patterns. Divider strips may simply serve as a transition between colors or they may be bent on the job site or water-jet cut at the factory to form intricate designs, logo artwork, and lettering. The thickness and metal of the divider strip may also be varied to compliment the flooring's design.

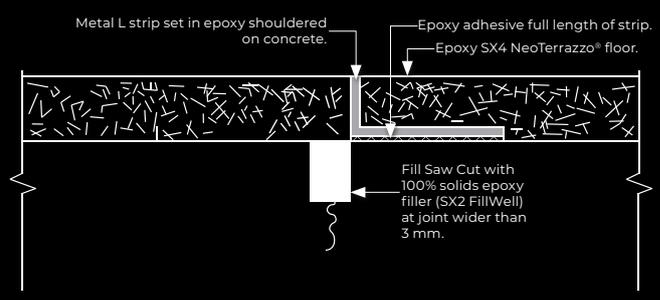
Concrete joints should run off all corridor intersections and corners. In addition, other dividers can be set to separate colors or as an accent themselves. In these systems the dividers not located over concrete joints are strictly decorative. They do not function as leveling devices, or crack preventers.



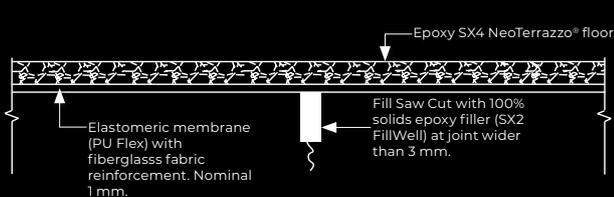
## 1. Detail for standard contraction joint (Saw Cuts/ Control Joints)



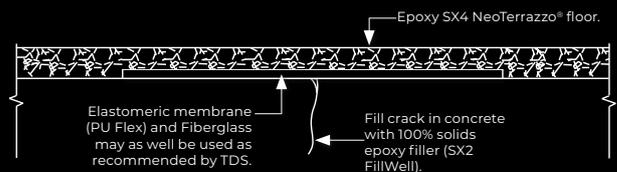
## 2. Detail for low profile divider strip



## 3. Detail when anticipating substrate horizontal movement



## 4. Detail for substrate movement & random crack treatments



# NEOTERRAZZO® INSTALLATION QUESTIONS AND ANSWERS

## ADVANTAGE OF THE COLORTEK® SYSTEM VS OTHERS?

It provides color control, resiliency, chemical resistance and tensile-compressive strengths not found in cement-based systems.

- Excellent for multi-colored patterns.
- Lightweight and flexibility.
- Anti-bacterial.
- Lowest maintenance cost due to non-absorbency.
- Can be installed with minimal dividers providing seamless characteristics.
- It can naturally absorb some horizontal concrete crack or control joint movement and as such, it can be used without a flexible membrane.
- It has the quickest pour to grind installation time.
- Average lifetime expectancy for epoxy terrazzo: 75 years.

## WHAT IS THE IDEAL SUBSTRATE?

Terrazzo should be applied directly on the top of fully cured cement screed type C20 or above with a minimum thickness of 70 mm and a relative humidity < 4%.

In case of any floor leveling required epoxy screed mortar could be applied under the system. It is not recommended to use cementitious self-leveling products under the terrazzo.

## WHAT IS THE SYSTEM'S THICKNESS?

It varies depending on the aggregates used. A normal system can vary from 2 to 20 mm or more, while the most frequently used are 6 to 15 mm.

## WHAT IS THE SYSTEM'S WEIGHT?

4-40 Kg/sqm also depending on the aggregates size used in the mix.

## IS NEOTERRAZZO® ONLY FOR FLOORS?

NeoTerrazzo® is most known for use as a flooring material yet there are many field applications. NeoTerrazzo® can be made into stair treads, stair risers, base, counter-tops, tabletops, benches and more. NeoTerrazzo® can also be poured in place or created via precast method, which is manufactured on an off site location and later transported to the project site for installation.

## IS NEOTERRAZZO® SLIP RESISTANT?

Sealers and coatings determine whether or not a NeoTerrazzo® floor is slippery. For those with concerns over how to prevent slips and falls on a terrazzo floor, please ask your local terrazzo contractor for recommended products.

## CAN NEOTERRAZZO® BE RESTORED?

Yes. NeoTerrazzo® floors that have experienced damaged over the years or display a dull appearance can be restored to their original state to look brand new once again. NeoTerrazzo® floors can be polished and resealed. NeoTerrazzo® floors with chips or cracks can be patched with a matching floor color and aggregates.

## CAN NEOTERRAZZO® CRACK?

Colortek's NeoTerrazzo® System is formulated to prevent cracks from occurring. In case extreme movement is suspected, one way to prevent cracks from occurring is to have a terrazzo installer apply a crack suppression membrane. We supply a highly flexible membrane system to provide a crack resistant, resilient and durable floor for any of our flooring products (PU Flex).

## WHAT IS NEOTERRAZZO® LEED CONTRIBUTION?

- MR Credit 1.2 Building Reuse - Maintain Interior Nonstructural Elements (1 point Possible) Terrazzo floors typically last the life of the structure. In many renovation projects, the original terrazzo flooring has been restored to its original condition.
- MR Credit 4 - Recycled Content Credit (2 points possible). SX4 NeoTerrazzo incorporates recycled material that has been salvaged & re-crushed & sieved for the terrazzo trade. One point is granted for 10% recycled content & a second point for an additional 10% (20% total) of the total value of the recycled materials on the project.



# THE DIFFERENCE BETWEEN EPOXY NEOTERRAZZO® AND CONCRETE TERRAZZO

SX4 EPOXY NEOTERRAZZO®	314 CONCRETE NEOTERRAZZO®
Indoor controlled environment	Ideal for outdoor use
Possibility of a thin system (Starting 6 mm)	
Limitless color and design options	Limited color choices
Unlimited strip geometry	Rectangular strip geometry
Average lifetime expectancy: 75 years	

## MAINTAINING NEOTERRAZZO® FLOORS

### GENERAL MAINTENANCE

The implementation of a routine maintenance program will prolong the life of the surface in addition to enhancing the appearance of your NeoTerrazzo® flooring.

Your terrazzo has been grounded, polished, and sealed. This protects your surface from immediate stains, but no spillage should be ignored and allowed to soak and dry into the floor.

Floors should be swept daily, treated cloth mops should be used to pick up fine abrasive dirt. As floors become soiled, they should be scrubbed with a detergent solution and properly rinsed. Harsh cleaners and sealers may damage the floor surface.

Avoid all-purpose cleaners or soaps containing water soluble, inorganic or crystallizing salts, and harmful alkalis or acids. Also avoid oil based sweeping compounds which can permanently discolor your floor

### DAILY MAINTENANCE

Floors should be swept daily, treated cloth mops Dust mop with clean non-oily dust mop.

Remove fine dust particles frequently from the mop with a vacuum hose. Remove any wet spillage by damp mopping.

Aggressive skid-inhibiting surfaces, require brush scrubbing followed by water rinse. Normal cleaning with a mop will not properly clean the textured surface. See "Weekly Maintenance" for maintaining a skid-inhibiting surface.

### DISCLAIMER

Failure to maintain a cleaning routine can affect the performance of NeoTerrazzo®. Please ensure you have read the health and safety data sheet for any cleaner you intend to use.

### WEEKLY MAINTENANCE

Damp mop the surface with an all-purpose cleaner. Scrubbing is required with a skid-inhibiting surface or when a smooth surface becomes very soiled Use a bristle brush or a bristle attachment on a power scrubber (not a nylon pad) using a detergent solution to dislodge the dirt.

The type of detergent will depend on the degree and type of build-up on the floor surface. Use an All-Purpose cleaner for areas exposed to light traffic dirt.

Extremely heavy-duty soils, oil, grease, and rubber marks, etc. may be cleaned using a degreaser to remove tire marks and other tough stains. After scrubbing, the floor should be rinsed and vacuumed to prevent the dirt from resettling on the floor.

### MAJOR MAINTENANCE

Industrial Flooring Systems are resistant to wear and chemical attack. However, if it becomes necessary, the surface may be renewed by cleaning and re-coating with the appropriate resin. Before coating, the floor must be completely cleaned and preferably sanded to ensure a sound bond.

### ADDITIONAL CONSIDERATIONS

Some cleaners will affect the color, gloss or texture of your polymer floor surfaces. We recommend that you test each cleaner in a small area.



**COLORTEK®**

TECHNOLOGY IN ALL ITS COLORS



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