

# TERRAZZCO® EZpour Epoxy 158

## DESCRIPTION

TERRAZZCO® EZpour Epoxy 158 is a pigmented, 100% solid (VOC free), two-component epoxy resin system. When combined with an extensive variety of decorative aggregates and poured in place to 1/4" or 3/8" nominal thickness, it yields a highly decorative terrazzo flooring system. TERRAZZCO® EZpour Epoxy 158 provides incredible sustainability and high resistance to wearing while also being resistant to bacterial growth. The product also has the lowest life cycle cost of any flooring system available. Crack-resistant installations of TERRAZZCO® EZpour Epoxy 158 can be achieved when installed in conjunction with a TERRAZZCO® moisture vapor mitigation MMS 950 and flexible membrane FM 528. This epoxy resin system contains rapidly renewable raw materials, derived from a proprietary soy-based formula.

## ADVANTAGES

- VOC free for a healthier environment
- Contributes toward LEED® credits
- Manufactured and Supplied from Southeast United States
- Lowest life-cycle costing flooring system available
- Extensive color capabilities allow for unlimited design variations
- Self-priming, no primer needed

## CONSIDERATIONS

- Substrate temperature must be between 55° and 90° F before, during and 72 hours after installation. The surface temperature of the concrete must be 5° above the dew point to ensure proper curing of the terrazzo floor
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials. The concrete surface must be prepared by shot blasting or by grinding
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the terrazzo topping
- An active vapor barrier must be present under concrete slab
- Materials should be allowed to acclimate to controlled application environmental conditions prior to being mixed
- Material is not designed to be used as a moisture vapor barrier

## TYPICAL USES

TERRAZZCO® EZpour Epoxy 158 is perfect for almost any surface where a uniformly even, highly durable product is desired. TERRAZZCO® EZpour Epoxy 158 provides the best in aesthetic value and innovation making it ideal for commercial, industrial, and institutional uses. TERRAZZCO® EZpour Epoxy 158, when integrated with marble or granite aggregate resists heavy industrial wear and chemical corrosion making it perfect for pharmaceutical and chemical plants. TERRAZZCO® EZpour Epoxy 158 is the superior decision for educational institutions, medical centers, sports facilities, and institutions because of its hygienic, smooth surface that is effortless to clean.

## APPLICATION

**Surface Preparation:** All work should be performed by trained and experienced contractors or maintenance personnel. Concrete surface and air temperature must be a minimum of 55°F during installation and cure. Concrete surface temperature must be 5° above the dew point to ensure proper curing of the terrazzo floor.

Consult installer for job specific slab conditions for TERRAZZCO® epoxy terrazzo flooring system installation. Concrete surface must be free of dirt, waxes, curing agents, and any other foreign materials. Surfaces should be prepared by grinding or shot blasting and any repairs to concrete must be made prior to applying this product. An active vapor barrier under the concrete slab is required. Concrete slabs receiving resinous terrazzo flooring must be tested for relative humidity according to ASTM F-2170 (Relative Humidity in Concrete Floor Slabs using in situ probes). Measurements must be made



using Wagner Electronics Rapid RH® 4.0 Smart Sensor and Rapid RH® Easy Reader. RH reading below 75% do not require the application of a vapor moisture mitigation system. 75% or higher requires the use of Moisture Mitigation System MMS 950. A record sheet should be filled out that includes the ambient temperature and humidity during testing along with the substrate temperature and relative humidity. The test must be conducted at end user environmental conditions. Any deviation from this procedure will result in the warranty being voided.

## TECHNICAL DATA

### Cured Resin Properties:

Property	Test Method	Result	NTMA Requirement
Hardness	ASTM D-2240 using Shore D Durometer	83.5	60 – 85
Tensile strength	ASTM D-638 Specimen made using "C" die listed in ASTM D-412	9,890 psi	3,000 psi min.
Compressive Strength	ASTM D-695 Specimen B cylinder	13,200 psi	10,000 psi min.
Flexural Strength	ASTM D-790	4,500 psi	NA
Chemical Resistance	ASTM D-1308	<u>No Deleterious Effects:</u> Distilled Water Mineral Water 10% Sodium Hydroxide Isopropanol 10% Hydrochloric Acid .025 Detergent Solution 5% Acetic Acid Ethanol 1% Soap Solution 30% Sulfuric Acid	<u>No Deleterious Effects:</u> Distilled Water Mineral Water 10% Sodium Hydroxide Isopropanol 10% Hydrochloric Acid .025 Detergent Solution 5% Acetic Acid Ethanol 1% Soap Solution 30% Sulfuric Acid

### System Performance:

Property	Test Method	Result	Requirement
Flammability	ASTM D-635	Self-extinguishing <.25"	Self-extinguishing .25" max. burning
Bond Strength	ACI COM 403 Bulletin 59-43 (pages 1139 - 1141)	400 psi (100% concrete failure)	300 psi (100% concrete failure)
Thermal Coefficient of Linear Expansion	ASTM-D-696	17.4 x 10 <sup>-6</sup> / °F	25 x 10 <sup>-6</sup> / °F max.

## WORKING DATA

Working (Pot) Life	40 - 50 min. @ 75°F
Full Set Time	18 - 24 hours @ 75°F
Full Cure & Maximum Performance	5 -10 days

## COVERAGE

TERRAZZCO® EZpour Epoxy 158 Thickness	Coverage area per mixed gallon
3/8 in	9 – 10 sq.ft.
1/4 in	11 – 12 sq.ft.

## **MATERIALS NEEDED**

- Mineral spirits or isopropyl alcohol for cleaning equipment.
- Mixing equipment appropriate for work site.

## **MIXING & APPLICATION**

Premix TERRAZZCO® EZpour Epoxy 158 resin part A before using. Mix five (5) parts of TERRAZZCO® 158 resin part A with one (1) part of TERRAZZCO® hardener 158 Part B by volume with a slow speed drill until liquids are completely blended. Introduce the appropriate amount of aggregate and continue to mix. For complete installation instructions, contact your TERRAZZCO® representative.

## **CLEAN UP**

Clean skin with soap and water. Tools and equipment should be cleaned with isopropyl alcohol or mineral spirits before the epoxy hardens. Failure to do so will cause the epoxy system to harden on the tools and equipment making it very difficult to remove. Consult SDS for safety and health precautions.

## **SAFETY**

Refer to the SDS prior to use. Federal, state, and local guidelines must be followed during the handling and installation of these materials. Any excess material should be disposed of according to applicable federal, state, and local codes.

## **MATERIAL STORAGE**

It is suggested that materials are stored in a temperature and humidity controlled environment. If this is not possible materials should be allowed to acclimate to controlled environmental conditions of application. Keep resins and hardeners separated from each other until ready for use. Materials should be kept away from sources of ignition. Materials should be stored in their original unopened container. Epoxy resin does not have a shelf life and hardener has 1 year shelf life when stored in the above described manner.

## **PACKAGING**

TERRAZZCO® EZpour Epoxy 158 resin part A is packaged in 5 gallon pails or 55 gallon drums. TERRAZZCO® EZpour 158 hardener part B is packaged in one gallon cans, 5 gallon pails or 55 gallon drums.

## **MAINTENANCE**

Terrazzo flooring made with TERRAZZCO® EZpour Epoxy 158 is simply cleaned with neutral soaps or detergents. Regular mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is one of many top-coat finish options. Long periods of heavy foot traffic may necessitate reapplication of a finish coat. We also advise the owner to consult the National Terrazzo & Mosaic Association guidelines for maintaining terrazzo surfaces.

## **COLOR & AVAILABILITY**

TERRAZZCO® EZpour Epoxy 158 provides the interior designer with unlimited and intricate design possibilities utilizing a vast spectrum of colors. When coupled with zinc, aluminum, or plastic design strips and an immense array of aggregate options, TERRAZZCO® EZpour Epoxy 158 will provide lasting, unlimited variations of hues, designs, and configurations. Colors will not lose brilliance or fade. Personalized colors and custom color matching is available upon request.

## **TECHNICAL SERVICE**

TERRAZZCO® authorized representatives provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair, care and protection of concrete surfaces. TERRAZZCO® authorized representatives are available to assist customers at any time. For more information on TERRAZZCO® products, contact the manufacturer and distributor, Concord Terrazzo Inc. at (704) 921-4928.

**WARRANTY:** TERRAZZCO® products are warranted for a period of one (1) year. Warranty provides that the product will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of TERRAZZCO® literature. If any product fails to meet this warranty, the liability of manufacturer will be limited to replacement of any non-conforming material if notice of such non-conformity is given to manufacturer within (1) one year of delivery of materials. Manufacturer may in its discretion refund the price received by them in lieu of replacing the material. No customer or distributor of TERRAZZCO® products is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of manufacturer. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Manufacturer reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. MANUFACTURER OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. TERRAZZCO'S WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL. LEED® is a registered trademark of the Green Building Council.

## MANUFACTURER AND DISTRIBUTOR



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