



MASTER  
TERRAZZO  
TECHNOLOGIES

## PRODUCT DATA

### Morricite

### Thin-Set Epoxy Terrazzo

#### DESCRIPTION

Morricite Epoxy Matrix Terrazzo combines the ageless beauty of terrazzo with modern chemical technology to produce thin, lightweight floors that are designed to handle heavy traffic and remain beautiful for the life of the facility. This two component 100% solids VOC compliant system provides outstanding durability with the lowest life cycle cost compared to other decorative floor systems. Poured-in-place seamless epoxy matrix allows for unlimited color selection and design options.

#### TYPICAL USES

Institutions, hospitals, schools, colleges, universities, prestigious offices, showrooms, lobbies, shopping malls, hotels, restaurants, transportation facilities, airports, bus and train stations. Hygienic manufacturing plants, laboratories, and pharmaceutical facilities. Government buildings, courthouses, and museums. Convention centers and sports facilities. Anywhere needing a durable, decorative floor.

#### ADVANTAGES

- **Morricite** meets or surpasses N.T.M.A. specifications for epoxy terrazzo.
- Low odor 100% solids formula is excellent for use in renovation work in occupied space.
- Reduced weight and thickness compared to cement systems.
- Matrix is chemical and stain resistant.
- Seamless surface and unlimited color patterns allow for total freedom of design.
- Divider strips can be eliminated for free flowing appearance.
- Beauty retained with minimal maintenance.
- Variety of chips can be employed including marble, granite, glass, etc.
- Over 25 years of proven performance.
- MasterFlex Membrane (optional) helps minimize reflective cracking.

#### APPLICATION

- Ensure adequate ventilation during installation per current OSHA Standards.
- System should be installed only by personnel experienced in terrazzo installation.
- Stir resin and hardener separately prior to mixing.
- Mix five parts resin to one part hardener together and stir thoroughly for 45 to 60 seconds. Do not over mix.

#### COLORS

For colors and patterns, refer to color palettes from the National Terrazzo and Mosaic Association or the Terrazzo Tile and Mosaic Association of Canada. We are pleased to assist you with custom colors.

#### ENVIRONMENTAL REFERENCES

Leadership in Energy and Environmental Design (LEED) developed by the US Green Building Council (USGBC) provides a framework for implementing sustainable practices into building designs. As such, LEED follows the guidelines for VOC emissions established by the South Coast Air Quality Management District (SCAQMD). The products in the Master Terrazzo line have always been VOC compliant coatings.

California Proposition 65 established guidelines for indoor air quality, regulating emissions from paints, coatings, and building materials. This included VOC requirements as well as emission of other air contaminants that might be present. Master Terrazzo products were tested and passed all the requirements of CA Proposition 65.

## LIMITATIONS

- Heat Resistance Limits: 160° F (71° C) for continuous exposure.
- Effective vapor barrier required beneath the substrate in contact with the substrate's underside and detailed at penetrations and perimeter.
- Care in aggregate and sealer selection required for surfaces exposed to corrosive substances.
- Movement of sub-floor cracks may transmit through to surface.
- Liquid products should be stored in a cool, dry area 50° F to 90° F (10° C to 32° C), and away from direct sunlight, flame or other hazards.

## SURFACE PREPARATION

- Surface and air temperatures must be at least 55° F (12° C) during installation and initial cure.
- Surface should be checked for soundness, any "hollow" areas removed. Depressions, spalled areas and cracks should be pre-filled with MorriFill or Morricite Primer. Prepare concrete substrate to "open" surface pores by means of vacuum shot blasting or with terrazzo grinder, dry with coarse diamond stones with a vacuum unit. Surface preparation results should achieve a CSP3-CSP5 profile according to International Concrete Repair Institute Guideline No. 03732.
- Utilize MasterFlex Membrane as a crack treatment or under entire floor to help prevent reflective cracking of Morricite. See MTT's Concrete Substrate Crack Detailing Guidelines.
- Test concrete substrates according to ASTM F-2170 (Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes). Do not install terrazzo or terrazzo accessories until test results are 80% or less RH. If 80% RH is not met, consult MTT for additional drying or negative side moisture mitigation methods.
- Dewpoint at time of installation must be at least 5° F less than the slab and air temperature.

## MAINTENANCE

SealOn (solvent based) is a low viscosity acrylic polymer sealer that may be applied to **Morricite** to seal and help prevent staining of the marble, granite and other aggregates used in the terrazzo. Please consult MTT for maintenance information.

## SAFETY

For industrial and professional use **ONLY**.

For detailed safety guidelines, please refer to the product Material Safety Data Sheet (MSDS)

## TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D-638	4,800 psi
Compressive Strength	ASTM C-579	14,700 psi
Flexural Strength	ASTM C-580	5,650 psi
Impact Resistance Gardner Impact Tester	ASTM D-2794	100 in-lb without cracking or chipping
Abrasion Resistance	ASTM D-4060	0.045 gm
Hardness Shore D	ASTM D-2240	80 - 88
Flammability	ASTM D-635	Self-extinguishing, extent of burning 0.25" [6.4mm] max
Thermal Coefficient of Linear Expansion	ASTM D-696	25 x 10 <sup>6</sup> inches per inch per degree to 140° F maximum
Bond Strength	ASTM C-1583-04	300 psi [100% concrete failure]
Chemical Resistance	ASTM D-1308 immersion method - room temperature - seven days	No deleterious effects – The following contaminants used : Distilled Water                      1% Soap Solution Mineral Oil                              10% Sodium Hydroxide Isopropyl Alcohol                    10% Hydrochloric Acid Ethanol                                    30% Sulfuric Acid 0.025 Detergent Solution            5% Acetic Acid

## WARRANTY INFORMATION

Values stated herein are typical values based on periodic testing and product experience. MTT DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Where customer demonstrates non-conformance of product to typical values stated herein, MTT will supply replacement product or, at its option, credit Customer's account for the purchase price of non-conforming product. Recommendations herein as to the surface preparation, application, maintenance, and other matters involved in storage, handling, or use of product are based on best information reasonably available to MTT. Because MTT has no control over such matters, or over substrate or other conditions that may affect ultimate performance, Customer has the obligation to determine suitability of product for the intended purpose, and MTT SHALL HAVE NO RESPONSIBILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES BUT ONLY FOR THE REPLACEMENT OR CREDITING REMEDY ABOVE. All claims for replacement or crediting must be made within one year from date of shipment. The sale and purchase of product from MTT are subject in each case to MTT's Terms and Conditions of Purchase.

*Signature Designs for Generations to Come*

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Support Center: 888-999-6885 | Main Office: 215-949-1474 | [www.masterterrazzo.com](http://www.masterterrazzo.com)

Fax: 215-949-9422 | Email: [office@masterterrazzo.com](mailto:office@masterterrazzo.com)