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# PRODUCT DATA — Thin-Set Epoxy Terrazzo

# Morricite Resin 23-200 Part A
# Morricite Hardener 23-2147 Part B

## 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.
- Beauty retained with minimal maintenance.
- Variety of chips can be employed including marble, granite, glass, etc.
- Over 50 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 Master Terrazzo Technologies Certified Installer.

## 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.

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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: 160º F (71º 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 50º F to 90º F (10º C to 32º 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. Surface preparation results should achieve a 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 75% or less RH. If 75% RH is not met, consult MTT for additional drying or negative side moisture mitigation methods.

## SAFETY

For industrial and professional use **ONLY.**
For detailed safety guidelines, please refer to the product Material Safety Data Sheet (MSDS)

## 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, INCIDENTIAL, 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.

## TYPICAL PHYSICAL PROPERTIES

| Property | Test Method | NTMA Requirement | MTT Thin-Set Epoxy Results |
|---|---|---|---|

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|---|---|---|---|
| Hardness | ASTM D-2240 (Shore D) | 60 - 85 | 75-85 |
| Tensile Strength | ASTM D-638 | 3,000 psi min (20.7 MPa) | >4,500 psi (31.03 MPa) |
| Tensile Strength | ASTM C-307 | | >3,500 psi (24.13 MPa) |
| Compressive Strength | ASTM D-579 | Not Specified | >14,000 psi (96.55 MPa) |
| Compressive Strength | ASTM C-695 | 10,000 psi min (68.9 MPa) | 12,000 psi min (82.7 MPa) |
| Flexural Strength | ASTM C-580<br>ASTM D-790 | Not Specified<br>Not Specified | >5,000 psi (34.48 MPa)<br>5,000 psi min (34.48 MPa) |
| Impact Resistance Gardner Impact Tester<br>Impact Resistance | ASTM D-2794<br><br>MIL-D-3134J | | 100 in-lb without cracking or chipping<br><br>Withstands 16 ft lbs without cracking |
| Abrasion Resistance | ASTM D-4060 | | 0.045 gm |
| Flammability | ASTM D-635 | Self-extinguishing, extent of burning 0.25" [6.4mm] max | Self-extinguishing, extent of burning 0.25" [6.4mm] max |
| Thermal Coefficient of Linear Expansion | ASTM D-696 | 25 x 10 $^{-6}$ inches per inch per degree to 140˚ F maximum | 25 x 10 $^{-6}$ inches per inch per degree to 140˚ F maximum |
| Bond Strength | ASTM C-1583-04<br><br>ACI COMM 403 Bulletin 59-43 (pages 1139-1141) or ASTM C-1583-04) | 300 psi [100% concrete failure]<br>300 psi (2.1 MPa)- 100% concrete failure | 300 psi [100% concrete failure]<br><br>300 psi (2.1 MPa)- 100% concrete failure |
| Water Absorption | ASTM D 570 | | <.01% |
| Slip Resistance | ASTM D-2047<br>ANSI A326.3 2018<br>BOT-3000E | | 1) SealOn WB 132<br>COF 0 .6 min Meets ADA Requirements<br>2) WB Urethane 158<br>COF 0.6 min Meets ADA Requirements<br>DCOF >0.42 Wet |
| Chemical Resistance | ASTM D-1308<br>immersion method<br>room temperature<br>seven days | | No deleterious effects – The following contaminants used :<br>Distilled Water 1% Soap Solution<br>Mineral Oil 10% Sodium Hydroxide<br>Isopropyl Alcohol 10% Hydrochloric Acid<br>Ethanol 30% Sulfuric Acid 0.025<br>Detergent 5% Acetic Acid Solution |

Note: ASTM ”C” designate test for neat Resin
“D” designate test for epoxy mixed with aggregate