



MorriFill Product Data

Epoxy Slope and Fill Mortar

Description

MorriFill Systems are sloping and patching mortars to be used under Morricite Epoxy Terrazzo systems and other high performance floors. These systems are composed of economical VOC Compliant epoxy resins blended with durable graded aggregates.

System Components

- **MorriFill** Matrix
- **MorriFill** Blended Aggregate
- **Morricite** Primer
- **MasterGard** Moisture Vapor Suppression
- **MasterFlex** Membrane (optional)
- **Morricite** Epoxy Terrazzo

System Thickness

Range of 1/8" to 4" thick (.24 cm to 10.16 cm) depending on application and aggregate blend.

Typical Uses

- As a patching mortar to repair deteriorated concrete prior to installing Morricite Epoxy Terrazzo.
- As a patching mortar to help level low spots in floors prior to installing Morricite Epoxy Terrazzo.
- As a sloping mortar to achieve positive slope to drain prior to installing Morricite Epoxy Terrazzo.
- As a fill material for cutouts for expansion joint nosings, drains and other mechanical/electrical items where the floor must be resurfaced with Morricite Epoxy Terrazzo within 24 hours to one week.
- As a patching material to rebuild or fill vertical surfaces to accept terrazzo cove base or vertical terrazzo.
- Can be used with metal lath or metal stairs and decks prior to installing Morricite Epoxy Terrazzo. Consult MTT for proper surface prep and priming.

Advantages

- Higher compressive and tensile strength than cementitious fill materials.
- Low shrinkage lowers the susceptibility to cracking during cure and beyond.
- Single product can be used in multiple thicknesses from 1/8" to 4" just by varying aggregate blend.
- Low odor 100% solids, formula is excellent for use in renovation work in occupied space.
- Epoxy based product is completely compatible with Morricite Epoxy Terrazzo and other epoxy based topping systems.

Application

- System should be installed only by personnel experienced in epoxy resurfacing or terrazzo.
- Ensure adequate ventilation during installation per current OSHA standards.



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Color

- Translucent gray or translucent tan.

Limitations

- **MorriFill** is not designed to be used as a finished flooring system and should be used only when topped by another floor.
- Effective vapor barrier required beneath the substrate in contact with the substrate's underside and detailed at penetrations and perimeter.
- Movement of sub-floor cracks may transmit through **MorriFill**.
- Material 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 F2170 (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.

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 C 307	2,000 psi (14 MPa)
Compressive Strength ASTM C 579	8,000 – 10,000 psi (55 MPa)
Flexible Strength ASTM C 580	3,200 psi (22 MPa)
Hardness Shore D ASTM D 2240	75 – 80



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