



Mechanical Equipment Room System

DESCRIPTION

Morricite MER #400 is a two component, 100% solids and is a flexible, epoxy, hybrid resin that resists cracking caused by horizontal substrate movement or vibration. It provides superior crack bridging and is a waterproof durable floor with a chemically resistant *Morricite Epoxy Resin Glaze #320* topcoat. **Morricite MER** offers stress relieving properties for floor slabs.

ADVANTAGES

- Excellent crack bridging and waterproofing.
- Chemical resistant.
- Wear and abrasion resistant.
- Color and clarity allow for uniform application by visible indication of film thickness.
- Remains flexible over a wide range of temperatures.
- Achieves flexibility without the use of plasticizers and provides excellent long term flexibility.

TYPICAL USES

- Mechanical equipment rooms.
- Showers and lockers
- Rest rooms.
- Mezzanines.
- Hospital and health care facilities.
- Machine shops.
- Computer rooms.
- Large animal rooms
- Activity centers

COLOR

- Gray, other colors available.

SURFACE PREPARATION

The substrate must be clean (free of dirt, dust, paint, grease, oil, rust and other contaminates), sound and durable. New concrete must be fully cured (28 days minimum) and all laitance and curing compounds removed. Suitable preparation methods include grit blasting and scarification. The recommended minimum pull-off strength of the prepared substrate is 200 psi.

APPLICATION

- Morricite Primer must be used prior to installing the **Morricite MER**. To avoid working in tacky or uncured Primer, prime the day before. Then lightly seed Primer with 50 mesh sand to enhance the mechanical bond of **Morricite MER**.
- Thoroughly mix **Morricite MER** resin with hardener at a 2:1 ratio with a drill and paddle mixer. A clean five gallon pail works well for this application.

- Apply **Morrците MER** with a 1/4" V-notched trowel or a 3/16" V-notched squeegee at a rate of 50-55 sq. ft. per gallon, to achieve 30 mils thickness. Allow material to level until no ridges are showing.
- Allow this first coat to cure overnight.
- Snap chalk lines on the first coat of **Morrците MER** to the width of each piece of cloth to be placed.
- Apply a second coat of **Morrците MER** with a 1/4" V-notched trowel or a 3/16" V-notched squeegee at the rate of 90-100 sq. ft. per gallon to achieve 15 mils thickness. Allow material to level until no ridges are showing.
- Broadcast silica or hand cast quartz aggregate into the wet material until completely covered. Allow to cure. Sweep off excess aggregate with vacuum or broom.
- The excess – clean aggregate – can be saved for future use, prior to application of the seal coat.
- Thoroughly mix *Morrците Epoxy Resin Glaze #320* resin with hardener at a 2:1 ratio with a low speed drill and jiffy mixer. Use a flat trowel or squeegee and back roll with a 1/4" nap urethane roller. Apply 16 mils evenly, with no puddles, to a uniform coverage. Allow to cure at least 24 hours before opening to traffic.

SAFETY and PRECAUTIONS

- Provide adequate ventilation.
- Wear protective clothing, avoid skin contact.
- Use protective hand cream and wash frequently with warm soapy water.
- Use a respirator with organic vapor cartridge filters in poorly ventilated areas.
- These materials should be used only by qualified installers.
- Carefully review sections on subfloor preparation and safety, and be sure to read container labels.
- For industrial and professional use **ONLY**.
- THOROUGHLY REVIEW SAFETY DATA SHEETS (SDS) PRIOR TO INSTALLATION.

TYPICAL PHYSICAL PROPERTIES

Tensile Strength:	ASTM D 2370 at 20° C	1,500 psi
Elongation:	ASTM D 2370 at 20° C	130 %
Adhesion:	ASTM D 4541	> 350 psi (concrete failure)
Impact Strength:		>174 in-lbs
Shore D Hardness:	at 20° C	24 hours 34; 48 hours 52
Gel Time:	at 20° C	55 min

WARRANTY INFORMATION

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