



MasterFlex Membrane HB

DESCRIPTION

MasterFlex Membrane HB 450 is a 100% solids, high-build, two part flexible epoxy hybrid membrane. **MasterFlex** is used to treat cracks, joints, and terrazzo panels with cracks to help mitigate reflective cracking. **MasterFlex HB 450** is designed to be used with fiberglass mesh in surface for larger cracks, joints, and wherever crack mitigation is required.

SYSTEM COMPONENTS

- **MasterFlex Membrane HB 450**
- **MasterFlex Fabric**

TYPICAL USES

- Isolation membrane under entire terrazzo systems (locate adequate control joints in thin set terrazzo)
- Treatment of cracks in concrete prior to Morriscite terrazzo installation.
- Flexible patching matrix
- Isolation detail at joint strips.

ADVANTAGES

- **MasterFlex HB 450** is 100% solids for low odor and workplace safety during installation.
- **MasterFlex HB 450** absorbs movement to help prevent reflective cracking.
- **MasterFlex HB 450** remains flexible over a wide range of temperatures.
- **MasterFlex HB 450** is made from flexible resins and contains no plasticizers, it provides excellent long term flexibility.
- **MasterFlex Membrane Fabric** is added where additional dimensional stability is desired.

LIMITATIONS

- All applications involving excessive thermal cycling, shock and/or heat should be reviewed with MTT.
- Effective vapor barrier required beneath the substrate in contact with the substrate's underside and detailed at penetrations and perimeter.
- Cannot handle vertical shear movement in cracks or joints.
- Excessive horizontal movement or any vertical movement of sub-floor cracks may transmit through finish.
- Store material in a cool, dry area 50° F to 90° F (10° C to 32° C) away from direct sunlight, flame or other hazards.
- When full membrane installation is utilized, care should be taken at edge and termination details should be taken so that terrazzo is not directly bonded at edges. Consult MTT for detailing at cove base and other termination conditions.

APPLICATION

- Place terrazzo within recoat times recommended by MTT.
- Ensure adequate ventilation during installation per current OSHA standards.
- Stir resin and hardener separately prior to mixing.
- Mix two parts resin to one part hardener together and stir thoroughly for 45 to 60 seconds. Do not over mix. Apply by roller, trowel, or squeegee.
- **Morriscite Membrane HB 450** is installed over entire slab for extensive substrate cracking or crack mitigation. Apply Morriscite membrane HB 450 at 40 mils thickness. Spread fiberglass scrim into wet membrane to produce full substrate coverage in areas to receive terrazzo. Strips are installed on top of membrane.

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 should be pre-filled with MorriFill or Morriscite 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-(CSP4) profile according to International Concrete Repair Institute Guideline No. 03732
- 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 D 2370 @ 20° C	1,500 psi
Elongation ASTM D 2370 @ 20° C	>100%
Adhesion ASTM D4541	>350 psi (concrete failure)
Impact Strength	>174 in-lbs
Shore D Hardness @ 20° C	24 hours 34 48 hours 52
Gel Time at 20° C	55 min

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.

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