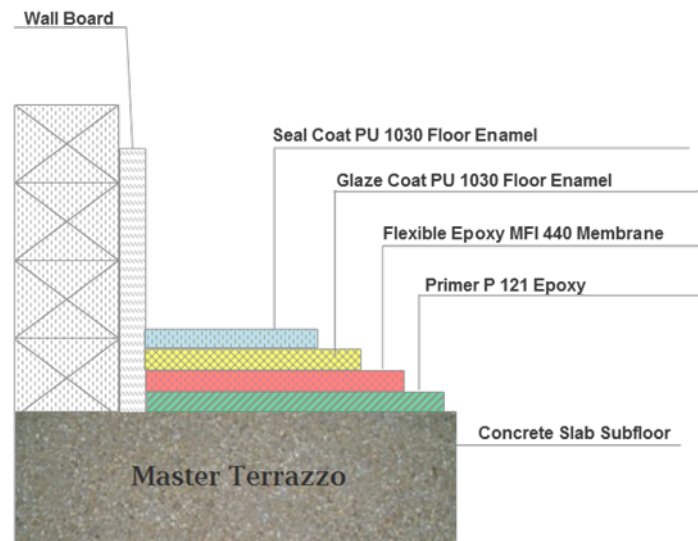




Chip Resistant Industrial High Build

Installation Diagram MasterShield Chip Resistant Industrial High Build



MasterShield High Build is a 100% solids, flexible, epoxy hybrid membrane. **MF 432** is used to treat cracks, joints, and terrazzo panels with cracks to help mitigate reflective cracking. **MF 432** may also be used to treat entire slabs.

TYPICAL USES

- Skid Inhibiting 1/8" crack resistant flooring
- Treatment of cracks in concrete.
- Flexible patching matrix

ADVANTAGES

- 100% solids for low odor and workplace safety during installation.
- Absorbs movement to help prevent reflective cracking.
- Self-priming when applied neat on properly prepared concrete slabs.
- Remains flexible over a wide range of temperatures.
- Provides excellent long term flexibility.
- **MasterFlex Membrane Fabric** can be 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.

APPLICATION

- 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 and stir thoroughly for 45 to 60 seconds. Do not over mix. Apply by roller, trowel, or squeegee.
- For more specific guidelines and details for utilizing **MF 432** as a crack treatment or under entire floor see MTT's Concrete Substrate Crack Detailing Guidelines.

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 and any "hollow" areas removed. Depressions and spalled areas 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. Surface preparation results should achieve a CSP3-CSP5 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.

MasterShield High Build System Components

MasterShield High Build System is a 100% solids, solventless, high-build, two-part epoxy coating. This total system provides a strongly bonded monolithic floor with excellent physical and mechanical properties. **MasterShield High Build** is only intended for interior applications and consists of the following components.

Primer: P 121. Apply at 250 sq.ft per gallon. Do not allow primer to puddle. Apply @ 3-5 mils.

Basecoat: M 440. Apply at 77 sq. ft. per gallon. Allow to cure

Glazecoat: PU 1030 Polurethane Enamel Gloss

Sealcoat: PU 1030 Polurethane Enamel Gloss

This mixture will provide an impact resistant floor and develops a cured strength that is many times that of concrete, therefore, providing exceptional durability and prolonging the life of the concrete substrate.

*Chemical resistant information is available on our website or sales binder.

**PLEASE CONTACT YOUR MTT REPRESENTATIVE FOR ADDITIONAL PRODUCT OPTIONS

SAFETY

For industrial and professional use **ONLY**.

For detailed safety guidelines, please refer to the Safety Data Sheet (SDS)

TYPICAL PHYSICAL PROPERTIES

Tensile Strength ASTM D 2370 @ 20° C	1,500 psi
Elongation ASTM D 2370 @ 20° C	130%
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 PARTICULAR PURPOSE. Where customer demonstrates non-conformance of product to typical values stated herein, MTT will, supply replacement product or, at its discretion, credit customer's account for the purchase price of non-conforming product. Recommendations herein as to the surface preparation, application, maintenance, and other matters involving storage, handling, or use of product are based on the best information available. 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. MTT SHALL HAVE NO RESPONSIBILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES BUT ONLY FOR THE REPLACEMENT OR CREDIT MENTIONED ABOVE. All claims for replacement or credit 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.

Master Terrazzo Technologies / PO Box 226 / Bristol, PA 19007
8000 Bristol Pike / Levittown, PA 19057 / www.masterterrazzo.com
215.949.1474 / Fax 215.949.9422 / Email:office@masterterrazzo.com