



**MASTER
TERRAZZO**
TECHNOLOGIES

MasterShield Industrial High Build

MasterShield Industrial High Build System is a 100% solids, High-build, two-part epoxy coating system. It is designed to enhance appearance, reduce dusting and protect the concrete slabs while making the surface easy to clean. The seal coat is installed at 16 to 20 mils.

This system is designed to be used indoors in commercial, industrial and institutional environments where a UV light-stable, clear, chemical resistant seal-coat is desired.

ADVANTAGES

- Mixes easily – 2 (two) parts A and 1 (one) part B
- Resistant to UV degradation
- Coatings / clear or pigmented
- Resistant to chemical attack and etching
- Quick installation
- Durable and long lasting
- Resistant to Algae, Fungi, Mildew & Mold (Does not promote bacterial growth)

SURFACE PREPARATION

The substrate must be clean (free of dirt, dust, paint, grease, oil, rust and other contaminants), 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.

TYPICAL PHYSICAL PROPERTIES

@ 75° F (23° C)

Color Clear or Pigmented
 Mix Ratio A : B 2 to 1 by volume

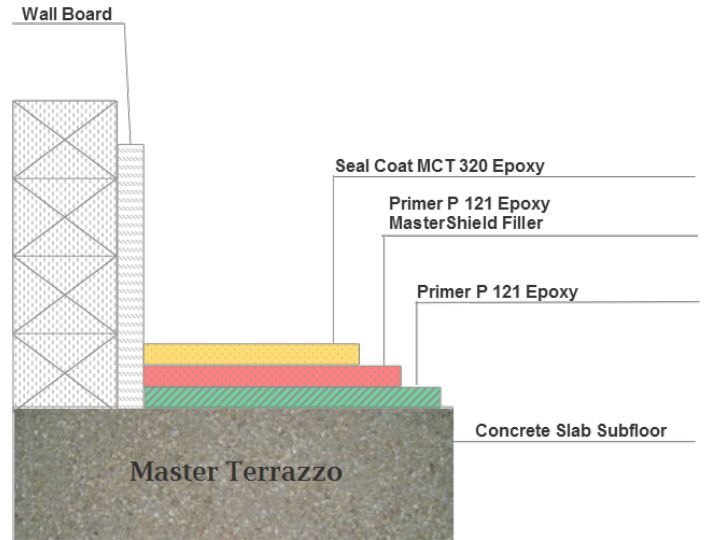
Pot Life (minutes)	Fast	Regular	LPL
@ 150 grams	18-20	38-40	65-70
@ 1 gallon mass	13	26	44

Cure Time (hours) @10 mils (250 microns)

	Fast	Regular	LPL
Dry to Touch	2-4	10-12	16-20
To Recoat	8-14	12-20	16-24
Final Cure (days)	7	7	7

Hardness:	ASTM 2240	(Shore D) 75-80
Tensile Strength:	ASTM D638	6,000 psi
Tensile Elongation:	ASTM D638	2 – 5 %
Compressive:	ASTM D695	11,000 psi
Flexural Strength:	ASTM D790	5,000 psi
Bond Strength:	ASTM D4541	> 400 psi
Impact, passing:	MIL D3134	no chipping or delaminating
Shelf Life:		2 years minimum in unopened container (stored between 50 °F to 90 °F)

Installation Diagram
 MasterShield Industrial High Build



SURFACE PREPARATION AND APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be prepared properly. Work must be performed by trained or experienced contractors or maintenance personnel. The MTT service department is pleased to answer any questions.

Sound and durable concrete should be crack free and have a cap pull-off strength 180 psi per ACI 503 R.

Installation will vary depending on the system being used. Epoxy materials are usually installed with trowel or notched squeegee.

CRACKED CONCRETE

Repair cracked concrete with Morricite Structural Epoxy Injection Adhesive or Morricite Non-Sag Epoxy Paste Adhesive per the manufacturer's recommendations.

Mastershield Industrial High Build Components

MasterShield Industrial Floor 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** is only intended for interior applications and consists of the following components.

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

Flood Coat: P 121 Primer/Sealer. Apply at **50 sq.ft** per gallon. Add 4-6 pounds **6600 silica flour** per gallon and mix.

Apply material using a 1/4" v- notched trowel or 1/4" v-notched squeegee and back roll with a lopped roller at a spread rate of **50 sq. ft.** per gallon to yield 32 mils WFT. Allow to cure. (Cure times vary depending on environmental conditions).

Seal Coat: MCT 320 Self Leveling Epoxy Apply at **200 sq.ft** per gallon

Sealcoat Options: PU 1030 Polyurethane Floor Enamel **2 coats.** Apply at **400 sq. ft.** per gallon per coat.

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

**PLEASE CONTACT YOUR MTT REPRESENTATIVE FOR ADDITIONAL PRODUCT OPTIONS

NOTE: PRIMER recommended on concrete to avoid "out-gassing" (air bubbles) related problems associated with porous concrete.

SAFETY

For industrial and professional use **ONLY**.

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

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.

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