

## 3 | 03 53 16 Iron-Aggregated Concrete Topping

# MasterTop® 1282MA

Heavy duty epoxy and metallic aggregate floor topping

FORMERLY MASTERTOP® 1182

### YIELD

Primer: MasterTop GP 500  
200 to 250 ft<sup>2</sup>/gallon (5 - 6.25 m<sup>2</sup>/L)  
Base Coat: MasterTop GP 500  
with metallic aggregate  
25 to 30 ft<sup>2</sup>/batch (2.3 - 2.8 m<sup>2</sup>),  
troweled at 1/4" thickness (6.4 mm)  
Finish Coat: MasterTop GP 500 – 150  
to 180 ft<sup>2</sup>/gallon (4.5 m<sup>2</sup>/L)  
All coverage rates are approximate and  
may vary dramatically with concrete  
porosity and application methods.

### PACKAGING

Epoxy Resins:  
5 gallon (18.95 L) pails  
55 gallon (208 L) drums  
Metallic Aggregate: 50 lb (22.6 kg) bags  
Pigment: 1 pint (.47 L) can

### COLOR

Black color imparted by the aggregate.  
Can be pigmented with 11 standard  
MasterTop PGM 1000 pigment pack  
colors. Refer to the Master Builders  
Solutions Performance Flooring Color  
Guide for more information.

### SHELF LIFE

MasterTop Epoxy resins:  
2 years when properly stored.  
MasterTop MA 1282F aggregate:  
2 years when properly stored.  
MasterTop PGM 1000 pigments:  
2 years when properly stored.

### STORAGE

Store in unopened containers at 60 –  
80 °F (16 – 27 °C) in clean, dry conditions

### VOC CONTENT

See MasterTop 1282MA LEED Letter

### DESCRIPTION

MasterTop 1282MA is a heavy duty epoxy and metallic aggregate floor topping. This system is designed for heavy duty industrial environments and other areas exposed to traffic and abuse. MasterTop 1282MA can be trowel applied at 1/4 – 1" (6 – 25 mm) in thickness per lift.

### PRODUCT HIGHLIGHTS

- Uniquely processed metallic aggregate provides the highest level of impact tolerance and abrasion resistance
- Excellent working characteristics for ease of application
- Superior adhesion to properly prepared concrete to enhance durability
- High abrasion resistance to withstand repeated, heavy traffic
- Tougher than concrete to provide long-lasting, durable floors
- Specially treated metallic aggregate resists oxidation
- 100% solids epoxy technology provides good chemical resistance
- Solvent free, non-flammable and non-combustible for safer installations

### APPLICATIONS

- Areas exposed to high abrasion and impact
- Where quick turnaround installations are desired compared to concrete-based toppings
- High-traffic areas
- Industrial, distribution, and manufacturing environments
- Heavy-equipment manufacturing and maintenance facilities
- Waste collection and transfer stations
- Loading docks and staging areas

### LOCATION

- Interior floors

### SUBSTRATE

- Over new and existing concrete substrates and toppings

**TECHNICAL DATA**

**COMPOSITION**

MasterTop 1282MA is an epoxy and metallic-aggregate flooring material.

**TYPICAL PROPERTIES**

PROPERTY
<b>Maximum in-service temperature,</b> 180 (83) °F (°C)
<b>Drying Time</b> Primer: 12 – 24 hours Base coat: 12 – 24 hours Topcoat: 24 hours

PROPERTY	RESULTS	TEST METHODS
<b>Compressive strength, psi (MPa)</b> 7 day	12,000 (82)	ASTM D 695
<b>Tensile Strength, psi (MPa)</b>	7,960 (54.8)	ASTM D 638
<b>Tensile Elongation, %</b>	3.2	
<b>Flexural strength, psi (MPa)</b>	14,100 (97.1)	ASTM D 790
<b>Abrasion resistance, in (mm), 60 min, 14 day cure</b>	0.005 (0.13)	ASTM C 779
<b>Impact resistance, psi (mm-kg)</b>	> 240 (> 2,760)	ASTM D 5420
<b>Hardness, Shore D</b>	85 – 90	ASTM D 2240

Test results are averages obtained under laboratory conditions. Expect reasonable variations. Unless otherwise noted, test samples were cured 7 days at 70 °F (23 °C) and 50% relative humidity.

**HOW TO APPLY**

**SURFACE PREPARATION**

- Floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263, ASTM F 2170 or ASTM F 2420.
- Repair concrete as necessary.
- Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
- Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
- Mechanical surface profiling is the preferred method of surface preparation for both new and existing floors. It is the only acceptable method of preparation where warranties will be issued. Mechanically profile the floor to a minimum CSP 4, as described by the International Concrete Repair Institute. Do not use acid etching for surface preparation. Do not use any method that will fracture the concrete.
- Apply a 2 5 ft<sup>2</sup> (2.35 m<sup>2</sup>) test in an inconspicuous area that meet the owner's expectations for appearance, slip resistance, and performance.

**MIXING**

- Mix the components for this product in the following ratios:

**Typical Properties**

APPLICATION COMPONENTS	MIX RATIO BY VOLUME
Primer MasterTop GP 500 Part A / Part B	2 to 1
Base Coat MasterTop GP 500 Part A / Part B + MasterTop PGM 1000 MasterTop MA 1282F aggregate	2 to 1
Topcoat MasterTop GP 500 Part A / Part B + MasterTop PGM 1000	

Consult the Master Builders Solutions Performance Flooring ColorGuide for more information

- If you are using the MasterTop PGM 1000 use the mixing ratio in the table.

PRODUCT DESCRIPTION	PIGMENT LOADS
MasterTop PGM 1000 White 1,932KG IP31	4 oz/ gallon
MasterTop PGM 1000 Lt Gry 1,842KG IP31	4 oz/ gallon
MasterTop PGM 1000 Md Gry 1,95KG IP31	4 oz/ gallon
MasterTop PGM 1000 Btshp Gr 1,733KG IP31	2 oz/ gallon
MasterTop PGM 1000 Tan 1,896KG IP31	1 oz/ gallon

MasterTop PGM 1000 Charcoal 1,501KG IP31	1 oz/ gallon
MasterTop PGM 1000 Deep Blue 1,102KG IP31	1/1.5 oz/gal
MasterTop PGM 1000 Black 0,907KG IP31	2 oz/ gallon
MasterTop PGM 1000 Bright Green 1,687KG IP31	4 oz/ gallon
MasterTop PGM 1000 Safety Red 0,957KG IP31	6 oz/ gallon
MasterTop PGM 1000 Safety Yellow 0,907KG IP31 *	8 oz/ gallon

\* Apply over white

- Properly mix each component separately before mixing together to ensure a uniform consistency.
- Combine Parts A and B in a suitably sized container. Use the proper ratios of A and B; scrape the sides of the containers to ensure a complete reaction.
- Mix properly for 3 minutes with a slow-speed drill and Jiffy-style mixing paddle at 350 rpms. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand. For larger projects use an appropriately sized mechanical mixer.

**PRIMING**

Apply the mixed primer to the properly prepared concrete at approximately 200 – 250 ft<sup>2</sup>/gallon (5 - 6.25 m<sup>2</sup>/L). The base coat can be applied over the wet primer coat.

#### APPLICATION OF BASE AND FINISH COATS

1. Add 100 lbs (45 kg) of MasterTop 1282 MA metallic aggregate to each 1-1/2 gallon (5.6 L) batch of mixed Part A and B.
2. Use a trowel to install the body coat at approximately 25 – 30 ft<sup>2</sup>/batch (2.3 - 2.8 m<sup>2</sup>) to a 1/4" (6 mm) nominal thickness or to the specified depth. Allow to cure 12 – 24 hours.
3. Apply the finish coat at 150 – 180 ft<sup>2</sup>/gallon 3.7 - 4.5 m<sup>2</sup>/L). Spread the coating by squeegee or trowel and backroll. The total thickness should be a minimum of 1/4" (6 mm), depending on the specification.
4. Allow 24 hours to cure. Do not expose the finished floor to chemicals until it has cured a minimum of 7 days.

#### FOR BEST PERFORMANCE

- Precondition all components to 70 °F for 24 hours before using.
- Verify the correct components on the jobsite before beginning mixing and application.
- Carry all expansion and control joints through the final topcoat.
- Rapid thermal cycling will lead to premature failure of this product.
- Do not apply MasterTop 1282 MA when the surface temperature is below 50 °F (10 °C).
- Storage temperature should be maintained between 60 and 75 °F (15 and 24 °C).
- Use power troweling equipment capable of producing low (20 – 25 rpm) designed for polymer floor products. Standard concrete power trowels are NOT recommended.
- Make certain the most current versions of product data sheet and SDS are being used; visit [www.master-builders-solutions.com/en-us](http://www.master-builders-solutions.com/en-us) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

#### HEALTH, SAFETY AND ENVIRONMENTAL

Health, Safety and Environmental Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting [www.master-builders-solutions.com/en-us](http://www.master-builders-solutions.com/en-us), e-mailing your request to [mbsbscst@mbcc-group.com](mailto:mbsbscst@mbcc-group.com) or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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