



The Chemical Company

Technical Data Guide

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Seamless Quartz  
Flooring

# MasterTop® 1254

Trowel applied heavy duty decorative floor with textured finish

FORMERLY SELBATWEDE™ HD

## YIELD

Primer: 200 ft<sup>2</sup>/gallon (5 m<sup>2</sup>/L)

Base coat: 96 ft<sup>2</sup> (9 m<sup>2</sup>)/batch

Receiving coat: 150 ft<sup>2</sup>/gallon (3.75 m<sup>2</sup>/L)

Grout coat: 100 ft<sup>2</sup>/gallon (2.5 m<sup>2</sup>/L)

Topcoat: 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L)

All coverage rates are approximate.

Coverage rates will vary with the desired texture and the porosity of the concrete.

## PACKAGING

Epoxy resins:

5 gallon (18.95 L) pails

55 gallon (208 L) drums available by special order

Aggregate: sold in 55 lb (25 kg) bags

MasterTop TC 493 Polyurethane topcoat:

1 gallon (3.79 L) cans

5 gallon (18.95 L) pails

MasterTop TC 683 Polyaspartic topcoat:

1 gallon (3.79 L) cans

5 gallon (18.95 L) pails

## COLOR

7 standard colors

Refer to the BASF Performance Flooring Color Guide for more information.

## SHELF LIFE

MasterTop Epoxy coatings: 2 years when properly stored.

MasterTop TC 493 Polyurethane topcoat: 1 year when properly stored.

MasterTop TC 683 Polyaspartic topcoat: 1 year when properly stored.

## STORAGE

Store and transport in unopened containers in a clean, dry environment. Protect from freezing.

## VOC CONTENT

See MasterTop 1254 LEED Letter

## DESCRIPTION

MasterTop 1254 is a 100% solids, trowel applied epoxy base coat with a decorative broadcast finish. The quartz imparts a slip resistant surface that can be varied by the applicator. It is applied over properly prepared primed surfaces at a depth of 3/16" (4.5 mm).

## PRODUCT HIGHLIGHTS

- Clear gloss coat over a multicolored quartz coat creates a unique decorative appearance
- 3/16" (4.5 mm) trowel base will accommodate damaged surfaces for greater impact resistance and service life
- 100% solids epoxy formulation is VOC compliant in all regions and low in odor
- Temperature in-service range of 0 to 170° F (-18 to 76° C) is ideal for a wide range of environments
- Broadcast finish allows texture to be varied to meet facility needs
- Epoxy technology provides good chemical resistance

## APPLICATIONS

- Medium to heavy-duty traffic areas
- Commercial and industrial applications
- Over badly damaged concrete
- Commercial buildings
- Retail facilities
- Lobbies
- Corridors
- Grocery stores
- Hospitals
- Showers and restrooms

## LOCATION

- Interior

## SUBSTRATE

- Use over new and existing concrete and toppings

**TECHNICAL DATA**

COMPOSITION

MasterTop 1254 is a 100% solids epoxy-resin binder with colored quartz aggregate.

**TYPICAL PROPERTIES**

PROPERTY	VALUE
<b>Weight</b> , lbs/ft <sup>2</sup> (kg/m <sup>2</sup> ), at 1/8" (3 mm)	4.98 (1.02)

**TEST DATA**

PROPERTY	RESULTS	TEST METHODS
<b>Impact strength</b> , in-lbs	60	ASTM 2794
<b>Compressive strength</b> , psi (MPa)	12,500 (88.5)	ASTM C 579
<b>Tensile strength</b> , psi (MPa)	1,710 (11.8)	ASTM C 190
<b>Impact resistance</b>	No chipping, cracking or delamination	MIL-D-24613
<b>Fire resistance</b>	Fire retardant	MIL-D-24613
<b>Adhesive strength</b> , psi (MPa)	> 500 (> 3.4) 100% concrete failure	ASTM D 4541
<b>Oil absorption</b>	Nil	MIL-D-24613
<b>Water absorption</b>	Nil	MIL-D-24613
<b>Thermal stability</b>	No de-bonding	ASTM C 844, modified
<b>Coefficient of friction</b>		ASTM D 2047
Wet	0.68	
Dry	0.57	

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C) and 50% relative humidity.

**CHEMICAL RESISTANCE**

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the MasterTop Chemical Resistance Guide.

## HOW TO APPLY

### SURFACE PREPARATION

1. 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.
2. Repair concrete as necessary.
3. Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
4. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
5. Mechanical surface profiling is the method of surface penetration for both new and existing floors. Mechanically profile the floor to a minimum CSP 4 as described by the International Concrete Repair Institute.
6. Apply a 25 ft<sup>2</sup> (2.35 m<sup>2</sup>) test in an inconspicuous area that meets the owner's expectations for appearance, slip resistance, and performance.

### MIXING

1. Mix the components for this product in the following ratios:

#### TYPICAL PROPERTIES

APPLICATION COMPONENTS	MIX RATIO BY VOLUME
<b>Primer</b> MasterTop GP 500 Part A / Part B	2 to 1
<b>Base Coat</b> MasterTop GP 500 Part A / Part B + MasterTop F 500TG aggregate	2 to 1
<b>Receiving coat</b> MasterTop GP 500 Part A / Part B + Broadcast aggregate	2 to 1
<b>Grout coat</b> MasterTop GP 500 Part A / Part B	2 to 1
<b>Topcoat</b> MasterTop GP 500 Part A / Part B	2 to 1

\*100 lbs (45 kg) aggregate to 1-1/2 gallons (5.9 L) of resin

2. Properly mix each component separately before mixing together to ensure uniform consistency.

3. 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.
4. 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.

### PRIMING

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

### APPLICATION

#### BASE COAT

Add 100 lbs (45 kg) of MasterTop F 500TG aggregate to each 1-1/2 gallon (5.9 L) batch of mixed Part A and B. Refer to BASF aggregate selector chart for aggregate recommendations. Apply at approximately 96 ft<sup>2</sup> (9 m<sup>2</sup>)/batch to a 1/8" (3 mm) nominal thickness or to the specified depth.

#### RECEIVING COAT

1. Apply receiving coat of epoxy resin at approximately 150 ft<sup>2</sup>/gallon (3.75 m<sup>2</sup>/L).
2. Broadcast the aggregate by hand or by mechanical blower into the wet receiving coat. Use 1/3 lb/ft<sup>2</sup> (1.62 kg/m<sup>2</sup>) or as required. Make certain the entire floor is saturated with aggregate, exhibiting a dry appearance.
3. Allow to cure. Once cured, sweep, stone, and vacuum the excess aggregate.

#### GROUT COAT

Apply the clear grout coat at 100 ft<sup>2</sup>/gallon (2.5 m<sup>2</sup>/L) by squeegee. Lightly back roll with a thick nap roller. Allow to cure at least 8 – 10 hours.

#### TOPCOAT

Apply the clear finish coat at 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L) to achieve the desired texture or smoothness. For increased abrasion resistance and UV stability, substitute MasterTop TC 493 or MasterTop TC 683 for the finish coat. Various curing agents can be used to achieve desired application properties. Refer to the MasterTop GP 500 product data sheet.

### MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt. Refer to the MasterTop Cleaning and Maintenance Guide for additional information.

### FOR BEST PERFORMANCE

- Do not expose MasterTop 1254 to any chemicals until fully cured (7 days).
- Precondition this product to 70° F (21° C) for 24 hours before using.
- Do not exceed the recommended recoat window of 24 hours; if in doubt, contact your BASF flooring specialist.
- Use an effective moisture barrier for substrates on or below grade; if not present, call your local BASF representative for options.
- Install this product at a substrate temperature between 50 and 85° F (10 and 30° C).
- The architect and owner should address joint details with the contractor before the job starts.
- The in-service temperature range is 0 to 170° F (-18 to 76° C).
- BASF representatives and flooring specialists can help you select the proper flooring system. Call 1-800-433-6739 for in-house and field technical assistance.
- Make certain the most current versions of product data sheet and SDS are being used; visit [www.master-builders-solutions.BASF.us](http://www.master-builders-solutions.BASF.us) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

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**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.basf.us](http://www.master-builders-solutions.basf.us), e-mailing your request to [basfbscst@basf.com](mailto:basfbscst@basf.com) or calling 1(800)433-9517. Use only as directed. **For medical emergencies only, call ChemTrec 1(800)424-9300.**

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