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Technical Data Guide

Pail Cost = \$3750

(Includes Installation + Material)

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09 67 23
Resinous
Flooring

MasterTop® GP 500 Coatings

Clear and tinted epoxy floor coatings

FORMERLY SELBY™ 700 SERIES COATINGS

YIELD

Approximately 200 ft²/gallon (5 m²/L)
Coverage rates will vary with the desired texture and the porosity of the concrete.

PACKAGING

5 gallon (18.95 L) pails
55 gallon (208 L) drums
Pigments: 1 Pint Can
See the BASF Performance Flooring Color Guide for more information.

COLOR

Clear and 7 standard colors. See the BASF Performance Flooring Color Guide for more information.

Custom colors may be available upon request and are subject to minimum quantities and increased manufacturing lead times.

SHELF LIFE

2 years

STORAGE

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

VOC CONTENT

See the MasterTop GP 500 LEED Letter

DESCRIPTION

MasterTop GP 500 coatings are 100% solids epoxy polymer systems. These coatings are designed to both prime and coat floors. Alternate cure agents can be used to achieve various properties.

PRODUCT HIGHLIGHTS

- High gloss finish creates a light reflective, easy to clean surface
- 100% solids formulation is very low VOC and universally compliant
- Ability to choose various curing agents to achieve desired application properties to provide versatility

LOCATION

- Interior

SUBSTRATE

- Over new and existing concrete surfaces and toppings

TECHNICAL DATA

COMPOSITION

MasterTop GP 500 coatings are two-component high-solids epoxy polymers.

TYPICAL PROPERTIES

PROPERTY	VALUE
Service temperature, °F	180
VOC, lbs/gal	0.47 (57)

TEST DATA

PROPERTY	RESULTS	TEST METHODS
Adhesive Strength, psi (MPa)	350 (2.5) 100% concrete failure	ASTM D 4541
Abrasion, mg loss; CS-17 Wheel, 1,000 g load, 1,000 cycles	0.087	ASTM D 4060
Moisture-vapor transmission, perms	0.4	ASTM E 96
Impact resistance	Passes	MIL-D-3134F
Hardness, Shore D	85	ASTM D 2240
Rate of burn	Self-extinguishing	ASTM D 635
Surface flammability		ASTM E 162
Flame spread index	9.29	
Smoke deposit, mg/ms	0.1	
NSB class	1	

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C).

CHEMICAL RESISTANCE

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the MasterTop GP 500 Chemical Resistance Guideline. Contact your BASF representative for more information.

MIXING

1. Mix the components for this product in the ratios identified in the chart provided.

TYPICAL PROPERTIES

APPLICATION COMPONENTS	MIX RATIO BY VOLUME
Standard Components MasterTop GP 500 Part A / Part B + optional MasterTop PGM 500 pigment pack	2 to 1
Thixotropic MasterTop GP 500 Part A / MasterTop BC 500 TIX Part B	2.5 to 1
Faster set, ±3 hrs MasterTop GP 500 Part A / MasterTop BC 500FS Part B	2 to 1
Higher Temperature and Chemical Ability MasterTop GP 500 Part A / MasterTop BC 500HT Part B	2 to 1

2. Mix each component separately before mixing together.
3. Combine Parts A and B in a suitably sized container. Add 1 pigment pack for every 3 mixed gallons of Part A/Part B. (Note: Some colors will require 2 pigment packs for every 3 mixed gallons. Consult the BASF Performance Flooring color chart for more information.) 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.

APPLICATION

Install the mixed material to the properly prepared surface as indicated in the MasterTop floor system data guide. Allow to cure.

DRYING TIME

Approximately 12 – 24 hours
Drying times assume 70° F (21° C) and 50% relative humidity.

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt. Follow the MasterTop Flooring Protection and Maintenance guide to maximize the life of the floor.

FOR BEST PERFORMANCE

- Where greater color and UV stability is required, use MasterTop TC 493 or MasterTop TC 683.
- Texture can be varied by using different aggregates.
- Precondition these products to 70° F for 24 hours before using.

- Boxing batches is recommended to ensure color consistency.
- Do not exceed a recoat window of 24 hours. If in doubt, call your BASF representative or flooring specialist. Where a highly chemical-resistant epoxy coating is desired, see the Selbachem data guides.
- Do not expose MasterTop GP 500 Coatings to any chemicals until fully cured (7 days).
- Use an effective moisture barrier for substrates on or below grade; if not present, conduct your contact your 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.
- BASF representatives and floor specialists are available to assist you in the selection of the proper flooring system. Call 1-800-243-6739 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 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.

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, e-mailing your request to basfbcsst@basf.us, or calling 1(800)433-9517. Use only as directed. **For medical emergencies only, call ChemTrec 1(800)424-9300.**

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