

MasterTop[®] TC 504

Pigmented epoxy for floor and wall coatings

FORMERLY SELBY™ 400

YIELD

Approximately 160 ft²/gallon (4 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 available by special order

COLOR

7 Standard MasterTop colors. See the Master Builders Solutions Performance Flooring Color Guide for more information. Custom colors are subject to minimum quantities and increased manufacturing lead times.

SHELF LIFE

2 years when properly stored

STORAGE

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

VOC CONTENT

See MasterTop TC 504 LEED Letter

DESCRIPTION

MasterTop TC 504 resins are high solid epoxy polymer formulations. They are designed for use on both floors and walls. Alternate cure agents can be used to achieve various properties.

PRODUCT HIGHLIGHTS

- High gloss for good light reflectivity
- Various curing agents available for versatility to achieve desired application properties
- Pigmented coating with various color options
- High-build coating provides excellent hiding power
- Very low VOC, has virtually no odor

APPLICATIONS

- Where abrasion resistance is required
- Use as a topcoat to provide an orange-peel finish
- Used in multiple MasterTop systems
- Decorative commercial floors and walls
- Warehouses
- Clean rooms
- Industrial floors
- Cafeterias
- Laboratories

LOCATION

- Vertical and horizontal surfaces
- Interior

SUBSTRATE

- Over new and existing concrete surfaces and toppings

TECHNICAL DATA

COMPOSITION

MasterTop TC 504 coatings are two-component high-solids epoxy polymers.

TYPICAL PROPERTIES

PROPERTY	VALUE
Service temperature, °F	170

TEST DATA

PROPERTY	RESULTS	TEST METHODS
Adhesion, psi	100% concrete failure	ASTM C 882
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 Chemical Resistance Guideline. Contact your Master Builders Solutions representative for more information.

MIXING

1. Properly mix the components for this product in the following ratios.

MasterTop standard topcoat MasterTop TC 504 Part A MasterTop TC 504 Part B	2 to 1
MasterTop orange peel texture MasterTop TC 504 Part A MasterTop TC 504TX Part B	2.5 to 1
MasterTop thixotropic grade orange peel texture MasterTop TC 504 Part A MasterTop TC 500 TIX Part B	2.5 to 1

- Mix each component separately before mixing together to ensure 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.

APPLICATION

Install MasterTop 504 in accordance with the intended MasterTop epoxy system data guide.

DRYING TIME

Approximately 12 – 24 hours
 All drying times assume 70 °F (21 °C) and 50% ambient relative humidity. Lower temperatures will extend drying times.

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 or stability is required, use MasterTop TC 421 UHW or MasterTop TC 693. Precondition these products to 70 °F (21 °C) for 24 hours before using.
- Do not exceed a recoat window of 24 hours. If in doubt, call your Master Builders Solutions representative of flooring specialist.
- Do not expose MasterTop TC 504 to any chemicals until fully cured (7 days).
- Use an effective moisture barrier for substrates on or below grade. If not present,

contact your Master Builders Solutions 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.
- Master Builders Solutions representatives or flooring specialists are available to assist you in the selection of the proper flooring system. Call 1-888-243-6739 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.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, e-mailing your request to 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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