



The Chemical Company

Technical Data Guide



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 BASF 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 BASF 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 493 or MasterTop TC 683.
- 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 BASF 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 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 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.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 basfbcst@basf.com or calling 1(800)433-9517. Use only as directed. **For medical emergencies only, call ChemTrec 1(800)424-9300.**

LIMITED WARRANTY NOTICE

Every reasonable effort is made to apply BASF exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, BASF MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and BASF shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the BASF Technical Manager. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, BASF disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED

WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. BASF SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. BASF reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

FOR PROFESSIONAL USE ONLY. NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC.

BASF Corporation
Constructions Systems

889 Valley Park Drive, Shakopee, MN 55379
www.master-builders-solutions.basf.us

Customer Service 1(800)433.9517
Technical Service 1(800)243.6739

