



The Chemical Company

Technical Data Guide



09 96 35
Chemical Resistant
Flooring

MasterTop® TC 570CR

Clear and tinted chemical resistance epoxy floor coatings

FORMERLY SELBY™ 600 SERIES COATINGS

PACKAGING

5 gallon (18.95 L) pails

COLOR

See the BASF Performance Flooring Color Guide for more information

SHELF LIFE

2 years when properly stored

STORAGE

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

VOC CONTENT

See MasterTop TC 570CR LEED Letter

DESCRIPTION

MasterTop TC 570CR is a 100% solids, epoxy polymer coating. It is specially formulated for areas requiring an increased level of chemical resistance. MasterTop TC 570CR is a pure Novolac resin with resistance to 98% sulfuric acid.

PRODUCT HIGHLIGHTS

- High level of chemical resistance to protect floors from the harshest industrial environments
- 100% solids formulation that has virtually no odor and very low VOC
- Creates a hard surface that is easy to clean and maintain
- Available in textures, allowing slip resistance to be customized according to each facility's needs

APPLICATIONS

- Where harsh chemicals are used or stored
- Industrial plants
- Petrochemical facilities
- Battery manufacturing and storage areas
- Pulp and paper industries
- Electroplating operations
- Acid-etching environments
- Laboratories

LOCATION

- Interior

SUBSTRATE

- New and existing concrete surfaces and toppings

TECHNICAL DATA

COMPOSITION

MasterTop TC 570 CR is 100% solids pure Novolac epoxy resins.

TYPICAL PROPERTIES

PROPERTY	VALUE
Tack free time , hrs.	4 – 6
Initial cure , hrs.	24

TEST DATA

PROPERTY	RESULTS	TEST METHODS
Mixed Viscosity , cps	4,500	ASTM D2393
Pot Life , min.	40	ASTM D2471
Bond Strength , psi (MPa)	2,600 (18) 100% concrete failure	ASTM C882
Compressive Strength , psi (MPa)	14,300 (99.3)	ASTM D695
Tensile Strength , psi (MPa)	5,700 (39.58)	ASTM D638
Tensile Elongation , %	3.7 +/- 0.3	ASTM D638
Hardness , Shore D	80 +/- 2	ASTM D2240

Unless otherwise noted, test samples were cured for 28 days at 73 °F (23 °C)

CHEMICAL RESISTANCE

CHEMICAL	RESISTANCE
Sulfuric Acid , 98%	Excellent
Nitric Acid , 20%	Very Good
Acetic Acid , 20%	Very Good

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

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

TYPICAL PROPERTIES

COMPONENTS	MIX RATIO BY VOLUME
MasterTop TC 570 CR Part A	2 to 1
MasterTop TC 570CR Part B	2 to 1

2. Mix each component separately before mixing together.
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 rpm. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

APPLICATION

Refer to the specific MasterTop epoxy floor coating system for specific application instructions relative to the use of these materials within the system.

DRYING TIME

Tack free: 4 to 6 hours

Accepts light traffic: 24 hours

Fully cured for chemical resistance: 7 days

Recoat window: 12 to 24 hours

Cure times are based on conditions at 70 °F and 50% ambient relative humidity.

Lower temperatures will extend the cure times significantly.

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 further information.

FOR BEST PERFORMANCE

- 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.
- Do not expose MasterTop TC 570 CR Coatings 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)
- Textures can be varied using different aggregates.
- 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 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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