MasterTop® TC 493
Chemical resistant, aliphatic polyurethane floor coating

FORMERLY SELBY® N300 CR

DESCRIPTION
MasterTop TC 493 is a two-component pigmented or clear, aliphatic polyurethane coating. It provides excellent abrasion resistance, chemical resistance, weather resistance, and color retention.

PRODUCT HIGHLIGHTS
• Excellent abrasion resistance to handle excessive wear
• Excellent UV resistance to retain color stability and light reflectivity
• Excellent chemical resistance for a wide range of applications
• Excellent stain resistance for easy cleaning and maintenance

APPLICATIONS
• Floors exposed to heavy traffic, weather, or harsh chemicals
• Where color and UV stability is required
• As a lock coat for Ucrete broadcast systems
• As a topcoat for MasterTop flooring systems
• Aircraft hangars
• Industrial shop floors

LOCATION
• Interior or exterior

SUBSTRATE
• Over new and existing concrete surfaces and toppings

YIELD
275 – 375 ft²/gallon (6.9 - 9.4 m²/L)
All coverage rates are approximate. Coverage rates will vary with the desired texture and the porosity of the concrete.

PACKAGING
1 gallon (3.79 L) cans
5 gallon (18.95 L) pails

COLOR
Clear and 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
1 year when properly stored.

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

VOC CONTENT
See MasterTop TC 493 LEED Letter
**TECHNICAL DATA GUIDE**

**MasterTop TC 493**

**COMPOSITION**

MasterTop TC 493 is a two-component aliphatic polyurethane.

**HOW TO APPLY**

1. This coating must be installed over a MasterTop floor coating or system within the prescribed recoat window to promote maximum intercoat adhesion. If the recoat window is exceeded, the surface must be mechanically abraded and properly cleaned to create a mechanical bond between the surface and the first MasterTop TC 493 application.

**MIXING**

1. Mix the components for this product in a 3:1 ratio (A:B) by volume.
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 rpm. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

**APPLICATION**

1. Apply the material at 275 – 375 ft²/gallon (4 – 6.5 m²/L). Allow to cure.

**DRYING TIME**

Approximately 24 hours

Reccoat window: 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. Refer to the MasterTop Cleaning and Maintenance guide for additional information.

**FOR BEST PERFORMANCE**

- Tailor application techniques and coverage rates to jobsite conditions.
- Rapid thermal cycling can lead to premature failure of this product.
- Do not exceed a recoat window of 24 hours. If in doubt, call your BASF representative or flooring specialist.
- Precondition this product to 70°F (21°C) for 24 hours before using.
- In-service temperature range is 0 to 170°F (-18 – 76°C).
- Use an effective moisture barrier for substrates on or below grade; if not present, contact your flooring specialist for options.
- Install this product at a substrate temperature of 50 to 85°F (10 to 30°C).
- The architect and owner should address joint details with the contractor before the job starts.
- Do not expose MasterTop TC 493 to any chemicals until fully cured (7 days).

**TEST DATA**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion, psi</td>
<td>&gt; 30</td>
<td>ASTM D 903</td>
</tr>
<tr>
<td>Hardness</td>
<td>H pencil hardness</td>
<td>ASTM D 3363</td>
</tr>
<tr>
<td>Salt spray, after 1,000 hours</td>
<td>No effect</td>
<td>ASTM B 117</td>
</tr>
<tr>
<td>Accelerated weathering, after 2,000 hours</td>
<td>No effect</td>
<td>ASTM D 822</td>
</tr>
<tr>
<td>Moisture-vapor transmission, perms</td>
<td>0.01</td>
<td>ASTM E 96</td>
</tr>
<tr>
<td>VOC, lbs/gal (g/L)</td>
<td>3.1 (374)</td>
<td>EPA method</td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry</td>
<td>0.74</td>
<td></td>
</tr>
<tr>
<td>Wet</td>
<td>0.73</td>
<td></td>
</tr>
<tr>
<td>Taber abrasion, g loss; CS-17 Wheel, 1,000 cycles, 1,000 g load</td>
<td>0.038</td>
<td>ASTM D 4060</td>
</tr>
</tbody>
</table>

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 Guide.
- BASF representatives and flooring specialists are available to assist you in the selection of the proper coating 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.

**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.