MasterTop® 1248 CLAD
Trowel applied epoxy underlayment

FORMERLY SELBACLAD® 400

DESCRIPTION
MasterTop 1248 CLAD is a two-component 100% solids epoxy resin mixed with properly graded aggregates. It is used as an underlayment for epoxy flooring systems or as an economical, highly impact-resistant finished floor.

PRODUCT HIGHLIGHTS
• Specially graded aggregates are formulated for heavy-duty use
• Good abrasion, chemical, and impact resistance for long lasting protection
• 100% solids formulation that is low in odor and VOC compliant in all regions
• High bond strength
• Moisture resistance

APPLICATIONS
• Where heavy traffic conditions exist
• As a concrete resurfacer
• As an underlayment for epoxy floor systems
• To overcoat damaged concrete
• Sloping floors to drains
• Patching operations before applying epoxy flooring
• Beverage plants
• Dairies
• Breweries

LOCATION
• Interior only

SUBSTRATE
• Over new and existing concrete floors and toppings; for other substrates, contact Technical Service

YIELD
- Primer: 250 ft²/gallon (6.25 m²/L)
- Base coat: 48 ft²/batch (4.5 m²/L)
- Yield: 1 ft³/batch (0.028 m³)
All rates are approximate and 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
- 55 gallon (208 L) drums
- Aggregate: 50 lb bags (22.7 kg)
- Pigments: 1 Pint Can (0.47 L)

COLOR
- Base coat: 7 standard colors; see the BASF Performance Flooring Color Guide for details
- Custom colors are subject to minimum quantities, increased manufacturing lead-times.

SHELF LIFE
- MasterTop Epoxy coatings: 2 years when properly stored.

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

VOC CONTENT
- See MasterTop 1248 CLAD LEED Letter
TECHNICAL DATA

COMPOSITION

MasterTop 1248 CLAD is a 100% solid epoxy resin mixed with properly graded aggregates.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
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</thead>
<tbody>
<tr>
<td>Weight, lbs/ft² (kg/m²),</td>
<td>2.4 (11.7)</td>
</tr>
<tr>
<td>at 1/4” (6 mm) thickness</td>
<td></td>
</tr>
</tbody>
</table>

TEST DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength, psi (MPa)</td>
<td>12,000 (82.7)</td>
<td>ASTM C 579</td>
</tr>
<tr>
<td>Tensile strength, psi (MPa)</td>
<td>8,000 (56)</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Rate of burning</td>
<td>Self-extinguishing</td>
<td>ASTM D 635</td>
</tr>
<tr>
<td>Adhesive strength, psi (MPa)</td>
<td>350 (2.5)</td>
<td>ASTM D 4541</td>
</tr>
<tr>
<td>Oil absorption</td>
<td>Nil</td>
<td>MIL-D-3134</td>
</tr>
<tr>
<td>Moisture absorption</td>
<td>0.15</td>
<td>MIL-D-3135</td>
</tr>
</tbody>
</table>

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C). Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

CHEMICAL RESISTANCE

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the BASF Performance Flooring Chemical Resistance Guide.
**HOW TO APPLY**

**SURFACE PREPARATION**
1. Concrete floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263, ASTM F 2170 or ASTM F 2420.
2. Repair concrete as necessary.
3. Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
4. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer’s instructions.
5. Mechanical surface profiling is the method of surface penetration for both new and existing floors. Mechanically profile the floor to a minimum CSP 4 as described by the International Concrete Repair Institute.
6. Apply a 25 ft² (2.35 m²) test in an inconspicuous area that meets the owner’s expectations for appearance, slip resistance, and performance.

**MIXING**
1. Mix the components for this product in the following ratios.

<table>
<thead>
<tr>
<th>APPLICATION COMPONENTS</th>
<th>MIX RATIO BY VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer</td>
<td></td>
</tr>
<tr>
<td>MasterTop GP 500 Part A / Part B</td>
<td>2 to 1</td>
</tr>
<tr>
<td>Base Coat</td>
<td></td>
</tr>
</tbody>
</table>
| MasterTop GP 500 Part A / Part B + MasterTop PGM 500 pigment pack | 2 to 1
| Aggregate              | *Pigment |
| MasterTop FS00TG aggregate | **Pigment |

*Add 2 bags of aggregate for every 1-1/2 gallons of mixed resin.
**Add 1 pigment pack every 3 mixed gallons of MasterTop GP 500.
(Note: Some colors will require 2 pigment packs for every 3 mixed gallons. Consult the BASF Performance Flooring color chart for more information.)

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’s. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

**PRIMING**
Apply the mixed primer to the properly prepared concrete at 250 ft²/gallon 6-8 mils. The base coat can be applied over the wet primer coat.

**APPLICATION**
**BASE COAT – HAND TROWELING**
Add 100 lbs of MasterTop F 500TG aggregate to each 1-1/2 gallon batch of mixed Part A and B. Apply at approximately 50 ft²/batch (4.5 m²/L) to a 1/4” (6 mm) nominal thickness or to the specified depth. Allow to cure 12 – 24 hours.

**POWER TROWELING**
Repeat the steps above under hand troweling, but use MasterTop F 500 PT (power-trowel) grade aggregate instead.

**TOPCOATING**
When MasterTop 1248 CLAD is used as an underlayment, cover it with the desired finish, such as ceramic tile, epoxy terrazzo, or various polymeric deck coverings.

NOTE: Various curing agents can be used to achieve desired properties.

**DRIYING TIME**
- Primer: 12 – 24 hours (base coat can be applied wet on wet)
- Base coat: 12 – 24 hours
- Recoat 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 more information.

**FOR BEST PERFORMANCE**
- Do not exceed the recommended recoat window of 24 hours; if in doubt, contact your flooring specialist.
- Boxig batches is recommended to ensure color consistency.
- Precondition this product to 70° F (21° C) for 24 hours before using.
- Do not expose the MasterTop 1248 CLAD flooring system to any chemicals until fully cured (7 days).
- Use an effective moisture vapor barrier for substrates on or below grade; if not present, contact your BASF Flooring Representative for options.
- Install these products at a substrate temperature between 50 and 85° F (10 and 30° C).
- For resistance to chemicals, consult the Chemical Resistance Guide.
- The maximum service temperature is 170° F (76° C).
- Rapid temperature cycling can lead to premature failure of this product.
- Before the job starts, the architect and owner should address joint details with the flooring contractor.
- BASF representatives and flooring specialists are available to assist you in the selection of the proper coating 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 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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