ULTRA-TREAD® M SERIES 244

PRODUCT PROFILE

**GENERIC DESCRIPTION**
Polyurethane Modified Concrete

**COMMON USAGE**
Ultra-Tread M is a low odor mortar applied floor topping designed for monolithic applications in abusive service areas. It provides superior performance to other flooring systems such as acid brick, quarry tile and most polymer flooring systems. Designed for use in food and beverage facilities, pharmaceutical and processing areas, commercial and restaurant kitchens or anywhere a durable floor topping is required. Provides excellent chemical resistance and withstands thermal shock due to hot liquids and aggressive cleaning procedures. Areas may be quickly returned to service within hours of installation, depending on temperature and humidity. Ultra-Tread M is a self-priming mortar that can be applied to 10 day old concrete. It can withstand moisture vapor transmission up to 20 lbs (per ASTM F 1869) and relative humidity up to 99% (per ASTM F 2170).

**COLORS**
00GR Gray, 00RD Red. Black, blue, beige, and green are also available. Additional lead time may apply. Aromatic urethanes chalk and yellow with age, extended exposure to UV and artificial lighting.

**FINISH**
Matte

**SPECIAL QUALIFICATIONS**
Formulated with antimicrobial properties. Does not support bacteria or fungal growth. Contact your Tnemec representative for specific test results.

**VOLUME SOLIDS**
100% (mixed)

**RECOMMENDED DFT**
Suggested 1/4” to 3/8” (6mm to 9 mm).

**CURING TIME**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Light Traffic</th>
<th>Place in Service †</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F (24°C)</td>
<td>8 hours</td>
<td>12 hours</td>
</tr>
</tbody>
</table>

† For full resistance to chemicals and steam cleaning, 24 hour cure is needed.

Curing time varies with surface temperature, air movement, humidity and film thickness. Note: For faster curing and low temperature applications, add No. 44-714 Ultra-Tread Accelerator, see separate product data sheet for cure information.

**THEORETICAL COVERAGE**
210 - 170 sq ft per small kit

**NUMBER OF COMPONENTS**

**PACKAGING**
Small Kit

<table>
<thead>
<tr>
<th>PART A</th>
<th>PART B</th>
<th>PART C (Aggregate)</th>
<th>Colorant (Powder)</th>
<th>Mixed Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1 gallon jug</td>
<td>1-1/2 gallon jug</td>
<td>1-50 lb. bag</td>
<td>1 bag</td>
<td>3.24 gal.</td>
</tr>
</tbody>
</table>

**NET WEIGHT PER GALLON**
18.59 ± 0.25 lbs (8.4 ± .11 kg) (mixed)

**STORAGE TEMPERATURE**
Minimum 55°F (2°C) Maximum 110°F (43°C)

Material should be stored at temperatures between 70°F and 90°F (21°C and 32°C) for at least 48 hours prior to use. (Dry) Continuous 235°F (112°C). At thicknesses of ¼” or greater, resistant to aggressive chemical cleaning, thermal shock from steam or hot water, and occasional high temperature liquid spills or discharge at temperatures from -40°F (-40°C) to 250°F (121°C).

**SHELF LIFE**
Part A: 12 months Part B: 12 months Part C: 12 months

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions or you may contact your Tnemec representative for current technical data and instructions.
### FLASH POINT - SETA

N/A

### HEALTH & SAFETY

This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

### APPLICATION

#### COVERAGE RATES

Before commencing, obtain and thoroughly read the StrataShield Application Guide for Polyurethane Modified Concrete.

**GUIDE:**

<table>
<thead>
<tr>
<th>Small Kit Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 1/4&quot; (6.4 mm)</td>
</tr>
<tr>
<td>At 3/8&quot; (9.5 mm)</td>
</tr>
</tbody>
</table>

Application below minimum or above maximum recommended thicknesses may adversely affect performance. Above rates are based on theoretical coverage. Actual coverage will vary based on condition of substrate.

#### MIXING

Using a variable speed drill and mixing paddle, slowly mix the entire contents of both the A and B components for a minimum of one minute. While under agitation, slowly add colorant and mix until blended. Continuing agitation, slowly add the Part C aggregate and mix until material is uniform and no dry aggregate is present. The entire mixing process should take approximately three minutes. **Note:** Part B is moisture sensitive. Do not open until ready to mix. **Caution:** Do not attempt to split kits and do not reseal mixed material.

**Accelerator:** For accelerated cure on low temperature applications add Series 44-714 Ultra-Tread Accelerator to the Series 244 Part A prior to mixing. The proper amount of Series 44-714 is based upon ambient temperature; At 68°F (20°C) with 40% relative humidity 1 oz per kit will result in an 8 hour maximum cure time, 2 oz per kit will result in a 6 hour maximum cure time, 3 oz per kit will result in a 4 hour maximum cure time.

**Note:** Material will set up quickly if not applied immediately after mixing.

#### THINKING

**DO NOT THIN.**

#### POT LIFE

Without 44-714: 15 minutes at 75°F (24°C)

Higher material temperatures will significantly reduce the pot life and working time.

With 44-714 when using maximum amount (3 oz): 15 minutes at 60°F (16°C) 10 minutes at 70°F (21°C)

#### APPLICATION EQUIPMENT

- **Mortar:** Screed and trowel
- **Finish:** Loop roller

**Note:** For detailed instructions, refer to the StrataShield Application Guide for Polyurethane Modified Concrete.

#### SURFACE TEMPERATURE

Minimum of 40°F (4°C), optimum 65°F to 80°F (18°C to 27°C), maximum of 85°F (29°C). The substrate temperature should be at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature.

#### MATERIAL TEMPERATURE

For optimum application, handling and performance, the material temperature during application should be between 60°F and 80°F (16°C and 27°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and significantly shorten pot life and working time.

#### AMBIENT HUMIDITY

Humidity must be below 85%.

#### CLEANUP

Flush and clean all equipment immediately after use with xylene or MEK.

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