SURFACE PREPARATION

Prepare surfaces by method suitable for exposure and service.

CONCRETE

Allow new poured-in-place concrete to cure a minimum of 10 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 ‘Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride’ (moisture vapor transmission should not exceed 20 pounds per 1,000 square feet in 24 hour period), F 2170 ‘Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes’ (relative humidity should not exceed 99%), or D 4263 ‘Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method’ (no moisture present). Note: The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.

Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 5 or greater surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.

Must be clean, dry and free of oil, grease and other contaminants. Note: Substrate conditions which can adversely affect the adhesion of Series 242 Ultra-Tread S include: concrete that is structurally unsound, wet, damp, contaminated, or inadequately profiled at the time of application, absent or inadequate under slab moisture vapor barrier, hydrostatic pressure, Alkali Silica Reaction (ASR), and migration of oils, chemicals, and other contaminants.
**TECHNICAL DATA**

**VOLUME SOLIDS**

100% (mixed)

**RECOMMENDED DFT**

1/8” to 3/16” (3 mm to 5 mm). Series 242 can be applied as a stand alone mortar (neat) at 1/8” to 3/16” (3 mm to 5mm). Broadcasting with aggregate to refusal at 1/8” neat will yield a total thickness 3/16” (5 mm), at 3/16” (5 mm) neat will yield a total thickness 1/4” (6 mm). **Important**: Series 242 should not exceed 1/2” (15 mm) thickness when applied neat. Refer to coverage rates table for more information. **Note**: Exceeding the recommended coating thickness may result in blistering of the product. Avoid excessive coating thickness by thoroughly filling voids, depressions and cracks with recommended filler or surfacer prior to Series 242 application.

**CURING TIME**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Min. Recoat</th>
<th>Light Traffic</th>
<th>Place In Service †</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F (24°C)</td>
<td>6 hours</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**


**NUMBER OF COMPONENTS**

Parts A & B: 0.16 lb/gallon (19 grams/litre)
Parts A, B & C: 0.07 lb/gallon (8 grams/litre)

**PACKAGING**

47 sq ft per small kit at 1/8” 31 sq ft per small kit at 3/16”

**NET WEIGHT PER GALLON**

16.40 ± 0.25 lbs (7.44 ± .11 kg) (mixed)

**STORAGE TEMPERATURE**

Minimum 35°F (2°C)
Maximum 110°F (43°C)

**TEMPERATURE RESISTANCE**

Material should be stored 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

**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.

<table>
<thead>
<tr>
<th>Applied Neat</th>
<th>Broadcast To Refusal</th>
<th>Small Kit Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” (3.0 mm)</td>
<td>1/4” (6.0 mm)</td>
<td>47 sq ft (4.5 m²)</td>
</tr>
<tr>
<td>3/16” (5.0 mm)</td>
<td>1/4” (6.0 mm)</td>
<td>51 sq ft (5.0 m²)</td>
</tr>
</tbody>
</table>

**Important**: Series 242 should not exceed 1/2” (15 mm) thickness when applied neat. **Note**: Exceeding the recommended coating thickness may result in blistering of the product. Avoid excessive coating thickness by thoroughly filling voids, depressions and cracks with recommended filler or surfacer. 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.

**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 at least 5°F (9°C) above the dew point. Coating will not cure below minimum surface temperature.

**THINKING 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**

**Apply**: Trowel or screed rake.

**Finish**: Porcupine roller or loop roller.

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

**SURFACE TEMPERATURE**

Minimum of 80°F (24°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 (9°C) above the dew point. Coating will not cure below minimum surface temperature.

**AMBIENT HUMIDITY**

Humidity must be below 85%.

**CLEANUP**

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