PRODUCT PROFILE

**VOLATILE ORGANIC COMPOUNDS**

Part A: 0.16 lbs/gallon (19 grams/litre)
Part B: 1-4.5 lb. bag
Part C: 1-1 gallon jug
Mixed Yield: 11.7 gallons (4.5 L) Equivalent Small Kit: 10

**STORAGE TEMPERATURE**

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

**NET WEIGHT PER GALLON**

11.90 ± 0.25 lbs (5.40 ± 0.11 kg) (mixed)

**TIME BETWEEN APPLICATIONS**

Allow new poured-in-place concrete to cure a minimum of 28 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 three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (relative humidity should not exceed 80%), 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. Existing coatings require thorough scarification using a power sander with 100 grit sandpaper and compatibility testing.

**TECHNICAL DATA**

**VOLUME SOLIDS: SUGGESTED APPLICATION**

Light Traffic

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

**FLASH POINT - SETA**

N/A

**TEMPERATURE RESISTANCE**

Continuous 235°F (112°C)
This product contains chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

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

### COVERAGE RATES

<table>
<thead>
<tr>
<th>Suggested</th>
<th>Dry Mils (Microns)</th>
<th>Wet Mils (Microns)</th>
<th>Small Kit Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>12.0 (305)</td>
<td>14.0 (355)</td>
<td>114 sq ft. (10.6 m²)</td>
</tr>
<tr>
<td>Maximum</td>
<td>14.0 (355)</td>
<td>16.5 (420)</td>
<td>97 sq ft. (9.0 m²)</td>
</tr>
</tbody>
</table>

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

### MIXING

When mixing Small Kits, use a variable speed 850-RPM drill and four-inch (4") dispersion blade, slowly mix the entire contents of both the A and B components for a minimum of one minute. Continue agitation and slowly add the Part C aggregate and mix until material is uniform and no dry powder is present. The entire mixing procedure should take approximately three minutes. **Note:** Part B is moisture sensitive. Do not open until ready to mix.

When mixing Medium kits, mix one half gallon (0.500 gallons) of Part A component with one half gallon (0.500 gallons) of Part B component. Slowly mix the measured amount of both the part A and B components for a minimum of one minute. Continue agitation and slowly add one Part C powder and mix until material is uniform and no dry powder is present. The entire mixing procedure should take approximately three minutes. **Note:** Part B is moisture sensitive. Do not open until ready to mix.

The Medium Kits break down to equal ten (10) Small Kits or units. Single batch mixes equal to one (1) Small Kit or unit are frequently mixed in a pail. Multiple batch mixes can be mixed in an appropriate size pail.

**Accelerator:** For accelerated cure on low temperature applications add Series 44-714 Ultra-Tread Accelerator to the Series 246 Part A prior to mixing. The proper amount of Series 44-714 is based upon ambient temperature; At 70°F (21°C) with 50% relative humidity 1 oz per small kit will result in a 9 hour maximum cure time, 2 oz per small kit will result in a 7.5 hour maximum cure time, 3 oz per small kit will result in a 6.5 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: 10 minutes at 75°F (24°C)

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

**APPLICATION EQUIPMENT**

Brush: Use high quality 3/8” to 1/2” nap shed resistant woven fabric cover.

**Roller:** Use high quality synthetic or nylon bristle brush.

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

### TEMPERATURE REQUIREMENT

**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%.

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

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