COATING SYSTEM

Series 241 was tested in accordance with, and passed, the California Dept. of Public Health (CDPH) Standard Method v1.2 and meets the requirements of LEED v4.1 Low-Emitting Materials, Collaborative for High Performance Schools-Paints & Coatings, Living Building Challenge Materials Petal 10, and WELL Building Standard v2 206 VOC Restrictions.

SURFACE PREPARATION

CONCRETE

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 4.5 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.

ALL SURFACES

Must be clean, dry and free of oil, grease and other contaminants. Do not apply over existing coatings. Note: Substrate conditions which can adversely affect the adhesion of Series 241 Ultra-Tread MVT 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

46.0 to 52.0 mils (1168 to 1320 microns) applied neat. Film thickness, after broadcasting with aggregate, is approximately 1/8” (5mm). 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 241 application.

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Your Tnemec representative for current technical data and instructions.
With 44-714 when using maximum amount (3 oz): 15 minutes at 60°F (16°C)  10 minutes at 70°F (21°C)
quickly if not applied immediately after mixing.

Note:

7.5 hour maximum cure time, 3 oz per small kit will result in a 6.5 hour maximum cure time.

Material will set up

Important:

Before commencing, obtain and thoroughly read the Series 241 Installation and Application Guide.

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.

Broadcast (1/8” System): Series 241 must be broadcast to refusal with aggregate, colored quartz or decorative flake. This is typically completed within 10 to 15 minutes of application. Note: To reduce the potential for pinholes in the grout or lock coat, a lower viscosity product such as Series 222, 233, 237, 238, 252SC, 256, 257 or 281 should be used over the seeded Series 241 when building a 1/8” thick system Important: When broadcasting into Series 241 at 1/8” thickness, it is critical that a rounded, less angular, uniform size silica sand or colored quartz be used. This will reduce the potential for pinholes in the grout or lock coat.

Broadcast (1/4” System): Colored quartz and/or decorative flake systems will require an additional broadcast layer using Series 222, 224, 233, 237, 238, 257 or 257 clear to obtain a uniform appearance and texture before applying the desired clear finish coats. This will typically result in a total system thickness closer to 3/16”.

When mixing Medium and Extra-Large kits, mix 0.9117 gallons of Part A component with 0.7993 gallons of Part B component. When mixing Medium and X-Large Kits. The measuring pails are not needed for Small Kits as the part A & B components are already prefilled at the correct fill amounts.

Empty measuring pails are available for measuring these kit sizes. Reference F100-H189-UT for the 2-gallon Part A pail and F100-H190-UT for the 2-gallon Part B pail. Empty measuring pails are only needed for breaking down Series 241, 242 and 245 part A & B components when mixing Medium and X-Large Kits. The measuring pails are not needed for Small Kits as the part A & B components are already prefilled at the correct fill amounts.

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Broadcast (1/4” System): Colored quartz and/or decorative flake systems will require an additional broadcast layer using Series 222, 224, 233, 237, 238, 257 or 257 clear to obtain a uniform appearance and texture before applying the desired clear finish coats. This will typically result in a total system thickness closer to 3/16”.

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 aggregate 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 and Extra-Large kits, mix 0.9117 gallons of Part A component with 0.7993 gallons of Part B component. Note: Empty mixing pails are available for measuring these kit sizes. Reference F100-H189-UT for the 2-gallon Part A pail and F100-H190-UT for Part B pail. Slowly mix the measured amount of both the part A and B components at a minimum of one minute. Continue agitation and slowly add one Part C aggregate and mix until material is uniform and no dry aggregate 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 five (5) Small Kits or units and the Extra-Large Kits break down to equal three hundred (300) Small Kits or units. Single batch mixes equal to one (1) Small Kit or unit are frequently mixed in five-gallon pails. Multiple batch mixes are frequently mixed in larger portable, Hippo style mixers and used for larger pours.

Accelerator: For accelerated cure on low temperature applications, add Series 44-714 Ultra-Tread Accelerator to the Series 241 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.

DO NOT THIN.

Without 44-714: 10 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)

Note:

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**

This unique, self-leveling slurry system is typically applied by V-notch trowel or squeegee, backrolled with a loop roller and broadcast to refusal with 30/50 mesh aggregate, colored quartz or decorative flake yielding an approximate 1/8" thick base layer. Spread using a 3/8" to 1/2" V-notch squeegee or trowel. Immediately backroll with a loop roller to level and work out any trowel marks or waves. Immediately follow by broadcasting to refusal with 30/50 mesh aggregate colored quartz or decorative flake. **Note:** Series 241 must be broadcast to refusal with aggregate, colored quartz or decorative flake. Broadcast 30/50 aggregate or colored quartz at a rate of 0.8 lbs per sq ft and decorative flake at a rate of 0.25 lbs or 4-5 sq ft per lb.

**APPLICATION EQUIPMENT**

Apply: 3/8" to 1/2" V-notch squeegee or trowel.

Finish: Porcupine roller or 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. 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.