



# ULTRA-TREAD® S SERIES 245

## PRODUCT PROFILE

**GENERIC DESCRIPTION** Polyurethane Modified Concrete

**COMMON USAGE** Ultra-Tread S is a low odor, slurry 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 specifically for use in food and beverage facilities, pharmaceutical processing areas, commercial and restaurant kitchens or anywhere a durable floor topping is required. Resists chemicals, organic acids from food 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.

**COLORS** 00GR Gray, 00RD Red. Aromatic urethanes chalk and yellow with age, extended exposure to UV and artificial lighting. **Note:** Colored quartz may be broadcast into the system, creating a multi-colored or tweed look. Tnemec provides standard 222 Q colors, however, due to the pigmented background of the 245, a variance in color may be noticeable. A sample is recommended for color selection.

**FINISH** Matte  
**Note:** For textured finish, purchase either clean, dry, 30/50 mesh silica sand or other approved aggregates with an optional (lock) coat of Series 246, Series 280 or Series 282. Tnemec ChromaQuartz or approved equal can be substituted for decorative quartz application with an optional (lock) coat of Series 284 or Series 286 when a clear coat is desired.

## COATING SYSTEM

**SURFACER/FILLER/PATCHER** Series 243, 244, 245

**PRIMERS** Self-priming

**TOPCOATS** Series 246, 280, 282, 284, 286. **Note:** These topcoats may only be used when recommended aggregate has been broadcast to refusal into the Series 245 or the cured surface of the Series 245 has been thoroughly abraded by sanding or grinding prior to topcoating.

## SURFACE PREPARATION

Prepare surfaces by method suitable for exposure and service.

**CONCRETE** Allow new cast-in-place concrete to cure a minimum of 10 days at 75°F (24°C). Verify concrete dryness and prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Ultra-Tread may be installed in areas where high rates of moisture vapor transmission would prevent the use of non-breathing flooring systems. Moisture vapor transmission should not exceed 10 lbs per 1,000 sq ft in a 24 hour period (Reference ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"). Relative humidity should not exceed 90% (Reference ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes"). Shot-blast 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.

**ALL SURFACES** Must be clean, dry and free of oil, grease and other contaminants.

## TECHNICAL DATA

**VOLUME SOLIDS** 92% ± 2.0%

**RECOMMENDED DFT** Suggested 3/16" (minimum of 1/8", maximum of 1/2")

**CURING TIME**

Temperature	Light Traffic	Place In Service †
75°F (24°C)	8 hours	12 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.  
† For full resistance to chemicals and steam cleaning, 24 hour cure is needed.

**VOLITILE ORGANIC COMPOUNDS** Parts A & B: 0.2 lbs/gallon (23 grams/litre)  
Parts A, B & C: 0.08 lbs/gallon (9 grams/litre)

**THEORETICAL COVERAGE** 28.0 sq ft per small kit at 3/16"

**NUMBER OF COMPONENTS** Four—Liquids: Part A & Part B, Aggregate: Part C, Colorant

**PACKAGING**

	PART A	PART B	PART C (Aggregate)	PART D (Colorant)	Mixed Yield
Small Kit	1-1 gallon jug (partially filled)	1-1 gallon jug (partially filled)	1-42.5 lb. bag	1 unit	3.6 gal.

**NET WEIGHT PER GALLON** 16.28 ± 0.25 lbs (7.38 ± .11 kg) (mixed)

**STORAGE TEMPERATURE** Minimum 35°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.

**TEMPERATURE RESISTANCE** Continuous 235°F (112°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.**

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## APPLICATION

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

**GUIDE:**

	<b>Small Kit</b>
At 3/16" (4.8 mm)	28 sq ft (2.6 m <sup>2</sup> )

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. **Note:** Part B is moisture sensitive. Do not open until ready to mix. While under agitation, slowly add Part D 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 procedure should not exceed three minutes.  
**Note:** Material will set up quickly if not applied immediately after mixing.  
**Caution: Do not attempt to split kits and do not reseal mixed material.**

**THINNING** **DO NOT THIN.**

**POT LIFE** 15 minutes at 75°F (24°C)  
 Higher material temperatures will significantly reduce the pot life and working time.

**APPLICATION EQUIPMENT** **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 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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