



ULTRA-TREAD® V SERIES 243

PRODUCT PROFILE

GENERIC DESCRIPTION Polyurethane Modified Concrete

COMMON USAGE Ultra-Tread V is a low-odor mortar designed for troweling vertical surfaces such as trenches and equipment pads, and for building cove base. It should be used for vertical application needs in conjunction with horizontal applications of Ultra-Tread S or Ultra-Tread M. 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.

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.

COATING SYSTEM

PRIMERS Self-priming

TOPCOATS Series 246, 280, 282

SURFACE PREPARATION

CONCRETE Prepare surfaces by method suitable for exposure and service.
 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 a 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.

ALL SURFACES 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 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 243 Ultra-Tread V 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 3/16" (minimum of 1/8")

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.

VOLATILE ORGANIC COMPOUNDS Parts A & B: 0.2 lbs/gallon (23 grams/litre)
 Parts A, B & C: 0.05 lbs/gallon (6 grams/litre)

THEORETICAL COVERAGE 13.0 sq ft per small kit at 3/16"

NUMBER OF COMPONENTS Four—Liquids: Part A & Part B (1 Part A to 1 Part B by volume), Aggregate: Part C, Colorant

PACKAGING

	PART A	PART B	PART C (Aggregate)	Colorant (Powder)	Mixed Yield
Small Kit	1-1 quart can	1-1 quart jug	1-25 lb. bag	1 bag	1.65 gal.

NET WEIGHT PER GALLON 18.21 ± 0.25 lbs (8.26 ± .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.

ULTRA-TREAD® V | SERIES 243

APPLICATION

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

GUIDE:

	Small Kit Coverage
At 3/16" (4.8 mm)	13 sq ft (1.2 m ²)

Four inch rolled radius base, approximately 18-20 lineal feet per small kit. 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 mortar mixer or variable speed drill and mixing paddle, slowly mix the entire contents of both the A and B components for a minimum of two minutes. **Note:** Part B is moisture sensitive. Do not open until ready to mix. While under agitation, slowly add colorant at a rate of 1/2 unit per small kit and mix until blended. Continuing agitation, slowly add the Part C aggregate and mix until thoroughly blended. **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 **Mortar:** Trowel
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.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.