



ULTRA-TREAD® GLAZE SERIES 246

PRODUCT PROFILE

GENERIC DESCRIPTION	Modified Polyurethane
COMMON USAGE	Ultra-Tread Glaze is a pigmented, high-build, low odor, polyurethane coating. Typically used as a topcoat for sealing or locking aggregate in Ultra-Tread S broadcast texture finishes. 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, 00DG Dark Gray, 00RD Red. Special colors are available. Please contact your Tnemec representative for additional information. Aromatic urethanes chalk and yellow with age, extended exposure to UV and artificial lighting. A sample is recommended for color selection.
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

INTERMEDIATE	Series 241, 242, 243, 244, 245. Note: Use Series 246 as a topcoat only when recommended aggregate has been broadcast to refusal into the surface of the Series 245 or the cured surface of the Series 242, 243, 244 or 245 has been thoroughly cleaned and abraded by sanding or grinding prior to topcoating.
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SURFACE PREPARATION

CONCRETE	<p>Prepare surfaces by method suitable for exposure and service.</p> <p>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.</p> <p>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.</p>
ALL SURFACES	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	85% ± 2.0%
RECOMMENDED DFT	Suggested 8.0 to 10.0 mils (203 to 254 microns).
CURING TIME	

Temperature	Light Traffic	Place in Service ‡
75°F (24°C)	8 hours	12 hours

‡ 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.

VOLATILE ORGANIC COMPOUNDS	<p>Parts A & B: 0.2 lbs/gallon (23 grams/litre)</p> <p>Parts A, B, C & D: 0.16 lbs/gallon (19 grams/litre)</p>
THEORETICAL COVERAGE	1,379 mil sq ft/gal (33.9 m ² /L at 25 microns). See APPLICATION for coverage rates.
NUMBER OF COMPONENTS	Four—Liquids: Parts A, B & D, Aggregate: Part C

	PART A (Partially filled)	PART B (Partially filled)	PART C (Aggregate)	PART D (Liquid Colorant)	Mixed Yield
Small Kit	1-1 gallon jug	1-1/2 gallon jug	1-4.5 lb. bag	1-1/2 pint container	1.2 gal.

NET WEIGHT PER GALLON	11.90 ± 0.25 lbs (5.40 ± .11 kg) (mixed)
STORAGE TEMPERATURE	Minimum 35°F (2°C) Maximum 110°F (43°C) Note: 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 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*.

	Dry Mils (Microns)	Wet Mils (Microns)	Small Kit Coverage
Suggested	9.0 (230)	10.5 (265)	151 (14.2)
Minimum	8.0 (205)	9.5 (240)	170 (16.0)
Maximum	10.0 (255)	11.5 (290)	136 (12.8)

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

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 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.**

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 68°F (20°C) with 40% relative humidity 1 oz per kit will result in an 8 hour maximum cure time, 2 oz per kit will result in a 6 hour maximum cure time, 3 oz per kit will result in a 4 hour maximum cure time. **Note:** Material will set up quickly if not applied immediately after mixing.

THINNING

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.

With 44-714 when using maximum amount (3 oz): 15 minutes at 60°F (16°C) 10 minutes at 70°F (21°C)

APPLICATION EQUIPMENT

Brush, roller, trowel and squeegee. Squeegee or trowel to spread material and backroll. Brush small areas only.
Roller: Use high quality 3/8" to 1/2" nap shed resistant woven fabric cover.
Brush: 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%.

CLEANUP

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

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