



ULTRA-TREAD® MVT SERIES 241

PRODUCT PROFILE

GENERIC DESCRIPTION Polyurethane Modified Concrete**COMMON USAGE**

Ultra-Tread MVT is a high performance moisture control system designed to reduce moisture vapor emissions prior to the application of non-breathing, polymer floor topping finishes. Ultra-Tread MVT is a low odor, self-priming, base coat that can be applied to 10 day old concrete. It can withstand moisture vapor transmission up to 10 lbs (per ASTM F 1869) and relative humidity up to 90% (per ASTM F 2170). 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 a 1/8" thick base layer. **Note:** Series 241 **must** be broadcast to refusal with aggregate, colored quartz or decorative flake. Colored quartz and/or decorative flake systems will require an additional broadcast layer to obtain a uniform appearance before applying the desired clear finish coats. This will result in a total system thickness closer to 3/16".

COLORS Neutral/Tan

COATING SYSTEM

SURFACER/FILLER/PATCHER

Series 243, 245 or 241 mixed with additional aggregate. Patching should be allowed to cure a minimum of six hours prior to placement of the Series 241 to avoid blistering or doming of the Series 241. Series 215, or 201 mixed with fumed silica, may be used for small patches or crack repairs.

PRIMERS Self-priming**INTERMEDIATE**

Series 222, 223, 224, 237, 237SC, 238, 239, 239SC, 252SC, 256. **Note:** Series 241 must be broadcast to refusal with aggregate, colored quartz or decorative flake. Broadcast aggregate or colored quartz at an approximate rate of 0.8 lb per sq ft and decorative flake at an approximate rate of 0.25 lb per sq ft. The Series 241 base coat will account for approximately 1/8" of the desired system thickness.

TOPCOATS

Series 246, 256, 280, 282, 284, 286. **Note:** To ensure a pinhole free surface, two topcoats (grout and finish) are required when applied directly to Series 241 broadcast with aggregate, quartz, or flake.

SURFACE PREPARATION

CONCRETE

Prepare surfaces by method suitable for exposure and service.

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 MVT 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 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.

TECHNICAL DATA

VOLUME SOLIDS

87% ± 2.0%

RECOMMENDED DFT

Film thickness, after broadcasting with aggregate, is approximately 1/8". 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.

CURING TIME

Temperature	To Topcoat
75°F (24°C)	6-8 hours

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

VOLATILE ORGANIC COMPOUNDS

Parts A & B: 0.2 lbs/gallon (23 grams/litre)
Parts A, B & C: 0.12 lbs/gallon (15 grams/litre)

THEORETICAL COVERAGE70-80 sq ft (6.50-7.43 m²) per small kit**NUMBER OF COMPONENTS**

Three: Liquids: Part A & Part B, Aggregate: Part C

PACKAGING

	PART A	PART B	PART C (Aggregate)	Mixed Yield
Small Kit	1-1 gallon jug (partially filled)	1-1 gallon jug (partially filled)	1-14.7 lb bag	2.3 gal

NET WEIGHT PER GALLON

13.06 ± 0.25 lbs (5.92 ± .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

Wet Film Thickness	Dry Film Thickness	Small Kit Coverage
46 mils (1168 microns)	40 mils (1016 microns)	80 sq ft (7.43 m ²)
52 mils (1321 microns)	45 mils (1143 microns)	70 sq ft (6.50 m ²)

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 850 RPM drill and four inch (4") dispersion blade, 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 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

10 minutes at 75°F (24°C)

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

APPLICATION EQUIPMENT

Spread using a 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 1/4 lb per sq ft.

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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77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0383

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/11/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Moisture Vapor Treatment Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		096623-005	1		12/11/2016	Moisture Vapor Treatment Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates