

ULTRA-TREAD MVT SERIES N241

PRODUCT PROFILE

Tread MVT is a low odor, slurry applied, high performance moisture control base layer designed to reduce moisture emissions prior to the application of non-breathing, polymer floor topping finishes. Ultra-Tread MVT is a self- g base coat that can be applied to 10 day old concrete. It can withstand moisture vapor transmission up to 20 lbs STM F 1869) and relative humidity up to 99% (per ASTM F 2170). Note: Series N241 must be broadcast to refusal ggregate, color quartz and/or decorative flake within 15 to 20 minutes of application. Color quartz and/or decorative systems will require an additional broadcast layer using non-pigmented Series N222, N224, 237, 238, 256, 257 or 286 and a uniform appearance and texture before applying the desired clear finish coats. This will typically result in a system thickness of approximately 1/8". Red, and Neutral. Note: Additional lead times may apply when ordering Beige, Black, Blue, Green, Off White, and <i>v</i> . Aromatic urethanes chalk and yellow with age, extended exposure to UV, and artificial lighting. Note: Colored or decorative flake may be broadcast to refusal into the system, creating a multi-colored or tweed look. A variance or may be noticeable and require a second broadcast layer of colored quartz or decorative flake. A sample is mended for color selection. N241 is formulated using a Phthalate and Phenol Free Bio-Based Environmentally Friendly Polyol. It meets ements for use in USDA and FDA-regulated facilities. The factory treated coating contains an antimicrobial agent to a timicroorganisms from degrading the coating film and guards against the growth of bacteria and their odors. The ct does not protect users or others against food borne or airborne bacteria. Contact your Tnemec representative for c test results. N241 was tested in accordance with, and passed, the California Dept. of Public Health (CDPH) Standard Method nd meets the requirements of LEED v4.1 Low-Emitting Materials, Collaborative for High Performance Schools-Paints tings, Living Building Chall
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N222, N223, N224, 233, 237, 237SC, 238, 239, 239SC, 252SC, 256, 257, 280, 280FC, 281, 282, 286. Note: Series N241 be broadcast to refusal with aggregate, colored quartz, or decorative flake before topcoating. Broadcast aggregate or d 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 or sq ft per pound. The Series N241 base coat will account for approximately 1/8" of the desired system thickness.
N222, 230ESD, 233, 237, 238, 239, N246, 247, 248, 249ESD, 252SC, 256, 257, 280, 280FC, 281, 282, N284, N285, 286, V291, 296, 297. Note: These topcoats may only be used when recommended aggregate, colored quartz, or tive flake has been broadcast to refusal into the wet Series N241. Note: If Series 247, 248, 249ESD, V290, V291 or selected for the finish coat over a broadcast system, a grout coat of Series N222, 233, 237, 238, 256, 257, 280, 281, 34 is required.
e surfaces by method suitable for exposure and service. new poured-in-place concrete to cure a minimum of 10 days at 75°F (24°C). Ultra-Tread MVT may be installed in where high rates of moisture vapor transmission would prevent the use of non-breathing flooring systems. Verify te dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of ete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed 20 pounds per square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using Probes" (relative humidity should not exceed 99%), or D 4263 "Standard Test Method for Indicating Moisture in ete by the Plastic Sheet Method" (no moisture present). Note: The testing listed above cannot guarantee avoidance re moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under ioisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, les or Alkali Silica Reaction (ASR) is suspected.
e concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI ical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 4-5 surface profile. cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
be clean, dry and free of oil, grease and other contaminants. Do not apply over existing coatings. Note: Substrate ions which can adversely affect the adhesion of Series N241 Ultra-Tread MVT include: concrete that is structurally nd, wet, damp, contaminated, or inadequately profiled at the time of application, absent or inadequate under slab ire vapor barrier, hydrostatic pressure, Alkali Silica Reaction (ASR), and migration of oils, chemicals, and other ninants.
(mixed) o 52.0 mils (1168 to 1320 microns) applied neat. Film thickness, after broadcasting with aggregate, is approximately Bmm). Refer to coverage rates table for more information. Note: Exceeding the recommended coating thickness esult in blistering of the product. Avoid excessive coating thickness by thoroughly filling voids, depressions and with recommended filler or surfacer prior to Series N241 application.

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions or you may contact your Tnemec representative for current technical data and instructions. PDSN241 Page 1 of 3

PRODUCT DATA SHEET

ULTRA-TREAD MVT | SERIES N241

CURING TIME	Temperatu	re M	lin. Recoat	Light Traffi	ic Place in Service		
	75°F (24°C	75°F (24°C)		6 hours 8 hours		12 hours	
	movement, humidit		Note: For faster cur	re is needed. Curing ti ing and low temperati nformation.			
DLATILE ORGANIC COMPOUNDS	A & B: 0.11 lb/gal (Parts A, B, & C: 0.0						
THEORETICAL COVERAGE	89-100 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 Equivalent	
	Extra Large Kit	245 gallon tote	245 gallon tote	245 20-lb bags	700.9 gallons (2653.2 L)	245	
	Large Kit	5 gallon pail	5 gallon pail	Five 20-lb bags	14.3 gallons (54.2 L)	5	
	Medium Kit	3.5 gallon pail (partial fill)	3.5 gallon pail (partial fill)	Three 20-lb bags	8.6 gallons (32.5 L)	3	
	Small Kit	1 gallon pail	1 gallon pail	20 lb bag	2.9 gallons (10.8 L)	1	
NET WEIGHT PER GALLON	15.69 ± 0.25 lbs (7.3	2 ± 0.11 kg) (mixed)		11	(10.0 L)		
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. Part A: 12 months Part B: 12 months Part C: 12 months						
SHELF LIFE HEALTH & SAFETY				ered hazardous. Read	container label war	and Materia	
NEALIN & JAFEI I				n prior to the use of th		ing and materia	
	·	-	-	-	-		
APPLICATION							
COVERAGE RATES	Before commencing	, obtain and thoroug	hly read the Series N	N241 Installation and A	Application Guide.		
		Applied Neat		to Refusal	Small Kit Coverage		
		46 mils (1168 microns)		1/8" (3.0 mm)		100 sq ft (9.3 m ²)	
		21 microns)		3.0 mm)	89 sq ft (8.2 m ²)		
	Broadcast (1/8" S This is typically cor lock coat, a lower w the seeded Series N thickness, it is critic potential for pinhol Broadcast (3/16" using Series N222, 1	ystem): Series N241 pleted within 10-15 5 iscosity product such 241 when building a al that a rounded, les es in the grout or locl System): Colored qu V224, 233, 237, 238, 2	must be broadcast t minutes of applicati as Series N222, 233 1/8" thick system. It s angular, uniform s k coat. artz and/or decorati 256 or 257 clear to o	vary based on condit to refusal with aggrega on. Note : To reduce to , 237, 238, 239, 252SC mportant : When brow ize silica sand or colo ve flake systems will n btain a uniform appea system thickness close	ite, colored quartz o he potential for pinh , 256, 257 or 281 sho adcasting into Series red quartz be used. ' equire an additional rance and texture be	oles in the group ould be used ove N241 at 1/8" This will reduce broadcast layer	
	desired clear finish	 desired clear finish coats. This will typically result in a total system thickness closer to 3/16". Mix Small Kit using a variable speed 850-RPM drill and four-inch (4") dispersion blade to slowly mix 1.0 gallon of component with 1.0 gallon of Part B component. Slowly mix the measured amount of both the part A and B compore for a minimum of one minute. Continue agitation and slowly add one bag Part C aggregate and mix until material is uniform and no dry aggregate is present. The entire mixing procedure should take approximately three minutes. No Part B is moisture sensitive. Do not open until ready to mix. The Medium Kits break down to equal three (3) Small Kits or units, the Large Kits break down to equal five (5) SK Kits or units, and the Extra-Large Kits break down to equal 245 Small Kits or units. Single batch mixes equal to or 					
MIXING	Mix Small Kit usin component with 1.(for a minimum of o uniform and no dry Part B is moisture s The Medium Kits	g a variable speed 85 gallon of Part B con ne minute. Continue aggregate is present. ensitive. Do not open break down to equal	0-RPM drill and four ponent. Slowly mix agitation and slowly The entire mixing p until ready to mix. three (3) Small Kits	r-inch (4") dispersion 1 r-inch (4") dispersion 1 v add one bag Part C a procedure should take or units, the Large K	blade to slowly mix i t of both the part A ggregate and mix ur approximately three its break down to ee	1.0 gallon of Par and B componen- till material is e minutes. Note: qual five (5) Sma	
MIXING	Mix Small Kit usin component with 1.0 for a minimum of o uniform and no dry Part B is moisture s The Medium Kits Kits or units, and th Small Kit or unit are	g a variable speed 85) gallon of Part B con ne minute. Continue aggregate is present. ensitive. Do not open break down to equal e Extra-Large Kits 1	0-RPM drill and four ponent. Slowly mix agitation and slowly The entire mixing p until ready to mix. three (3) Small Kits preak down to equa five-gallon pails. Mu	r-inch (4") dispersion 1 r-inch (4") dispersion 1 v add one bag Part C a procedure should take or units, the Large K	blade to slowly mix t of both the part A ggregate and mix ur approximately three its break down to ee ts. Single batch mixe	1.0 gallon of Par and B componen- til material is e minutes. Note: qual five (5) Sma es equal to one (
MIXING	Mix Small Kit usin component with 1.0 for a minimum of o uniform and no dry Part B is moisture s The Medium Kits Kits or units, and th Small Kit or unit are Hippo style mixers Accelerator: For a N241 Part A prior to 50% relative humidi hour maximum cur	g a variable speed 85) gallon of Part B con ne minute. Continue aggregate is present. ensitive. Do not opern break down to equal e Extra-Large Kits I e frequently mixed in and used for larger p ccelerated cure on low o mixing. The proper ty 1 oz per small kit	0-RPM drill and four agitation and slowly The entire mixing p until ready to mix. three (3) Small Kits oreak down to equa five-gallon pails. Mu ours. w temperature appli amount of Series 44 will result in a 9 hou kit will result in a 9	r- r-inch (4") dispersion l t the measured amoun add one bag Part C a procedure should take or units, the Large K l 245 Small Kits or uni	blade to slowly mix t of both the part A ggregate and mix ur approximately three its break down to ee ts. Single batch mixe frequently mixed in 714 Ultra-Tread Accor nbient temperature: , 2 oz per small kit v	1.0 gallon of Par and B componen- til material is e minutes. Note: qual five (5) Sma es equal to one (a larger portable, elerator to the Se At 70°F (21°C) w vill result in a 7.	
MIXING Thinning	Mix Small Kit usin component with 1.0 for a minimum of o uniform and no dry Part B is moisture s The Medium Kits Kits or units, and th Small Kit or unit are Hippo style mixers Accelerator: For a N241 Part A prior to 50% relative humidi hour maximum cur	g a variable speed 85 0 gallon of Part B con ne minute. Continue aggregate is present. ensitive. Do not open break down to equal e Extra-Large Kits I e frequently mixed in and used for larger p excelerated cure on low o mixing. The proper ty 1 oz per small kit v e time, 3 oz per small	0-RPM drill and four agitation and slowly The entire mixing p until ready to mix. three (3) Small Kits oreak down to equa five-gallon pails. Mu ours. w temperature appli amount of Series 44 will result in a 9 hou kit will result in a 9	r- r-inch (4") dispersion l t the measured amoun add one bag Part C a procedure should take or units, the Large K l 245 Small Kits or uni ultiple batch mixes are cations, add Series 44- -714 is based upon ar r maximum cure time	blade to slowly mix t of both the part A ggregate and mix ur approximately three its break down to ee ts. Single batch mixe frequently mixed in 714 Ultra-Tread Accor nbient temperature: , 2 oz per small kit v	1.0 gallon of Part and B componen- til material is e minutes. Note: qual five (5) Sma es equal to one (a larger portable, elerator to the Se At 70°F (21°C) w will result in a 7.5	
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	PRODUCT DATA SHEET ULTRA-TREAD MVT SERIES N241
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 3/16" to 1/4" 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 N241 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: 3/16" to 1/4" V-notch squeegee or trowel. Finish: Porcupine roller, loop roller, or 3/8" nap 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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