



TECHNICAL DATA SHEET

TAMMOSHEEN®

Smooth Acrylic Emulsion Decorative Coating

09960/09940

HIGH-PERFORMANCE COATINGS FINISHES

TAMMS INDUSTRIES
MARCH 2002 (Replaces 1/01)

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- DESCRIPTION:** TAMMOSHEEN is a decorative, high build, smooth, nongloss, water repellent, water-based acrylic emulsion coating used to protect and decorative sound masonry and concrete surfaces. TAMMOSHEEN is heavy bodied to fill pores in concrete block, yet permits the wall to "breathe." It has excellent stain resistance to dirt, mild acid, alkali, and mildew. It is also resistant to damage from freeze-thaw or ultraviolet rays. TAMMOSHEEN has superior adhesive, cohesive and color retention characteristics.
- USES:** TAMMOSHEEN is applied exterior or interior above grade, and interior below grade to properly prepared concrete, brick, block, stone, and stucco surfaces.
- COMPOSITION AND MATERIAL PROPERTIES:** TAMMOSHEEN is a waterbased emulsion of 100% acrylic resin polymers, mold and fungus inhibitors, freeze-thaw stabilizers, and mineral oxide color pigments.
- COLORS AND TEXTURES:** TAMMOSHEEN is available in a wide range of standard colors. Tint bases are also available for universal colorant systems. Other colors are available on request. Minimum quantities apply. Contact TAMMS Technical Service Centers for further information
- SURFACE PREPARATION:** Cure new concrete and masonry surfaces 28 days. Surface must be structurally sound, clean, dry, and free of dust, dirt, oil, peeling paint, curing and form release compounds, and other contaminants. Provide an absorptive surface on smooth precast, formed concrete, and other substrates by abrading the surface. Defective concrete, honeycombs, cracks, cavities and other defects should be routed to sound concrete and patched using compatible materials. Priming: For masonry and concrete, or when applying in hot, windy conditions priming the surface with TAMMS H/P PRIMER is recommended. For highly porous surfaces such as unpainted concrete block, TAMMS MASONRY PRIMER is recommended.

Material Properties At 75°F

Weight per Gallon	11.5 Lbs ± 0.5	
Viscosity	98-105 KU	
Solids by Weight	55-60%	
Test Method	Criterion	Results
ASTM E514-86		
Water Permeability	Reference	TAMMOSHEEN
Dampness Shows	10 mins.	none
First Water Shows	12 mins.	none
Dampness area back of wall @ 4 hours 75%		none
ASTM E96		
Water Vapor Transmission	20 mils film	12-14 perms
ASTM G26		
Weatherometer 6000 Hours	No crazing, cracking, chipping or flaking Light chalk and color change No other deterioration	
ASTM C666		
Freeze-Thaw durability (avg.)	300 cycles	99.60%
ASTM 672		
Scaling Resistance-25 cycles	Visual Rating	0
	Scaling Mass	none
Freeze-Thaw Test, Modified	50 cycles	No visible defects
Kentucky Method		
Salt spray resistance	300 hrs 5% solution @90 F ± 2F	No Adhesion Loss
Fed Test 141, Method 6271		
Fungus Growth	28 Days	none

Values are typical and not necessarily referenced to create specifications.

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- MIXING INSTRUCTIONS:** TAMMOSHEEN should be mechanically mixed using a low speed 3/4 inch drill with a mixing paddle. Mix thoroughly to a uniform, lump free consistency. Do not aerate the mix.
- APPLICATION TECHNIQUES:** Apply TAMMS H/P Primer to porous surfaces or during very hot or windy weather. Use airless spray equipment with 0.017 to 0.021 inch (0.43-0.53 mm) orifice size spray tips or paint rollers. Apply the primer uniformly to the substrate. For MASONRY PRIMER application, consult technical service. TAMMOSHEEN should be applied 2-4 hours following the HP primer application using spray, roller or brush. To spray TAMMOSHEEN, use airless spray equipment. Spray TAMMOSHEEN using a "cross coat" technique (horizontal pass followed by a vertical pass). Avoid applying to excess, which can cause the product to run down the wall or puddle. Back rolling is recommended during application of the first coat. The second coat can be sprayed after the first coat is dry, in 12-24 hours. Do not back roll during the second coat. For hand application, use brushes and 1½ inch (3.81 cm) nap rollers designed for latex paints. Dampen the brushes or rollers with clean water before use. When using rollers, uniform millage is achieved by rolling TAMMOSHEEN in one direction only.

8. **COVERAGE:** TAMMOSHEEN coverage rates are approximate and are for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements. Apply samples to all surfaces to be coated. Obtain approval of Architect or Owner for the color, finish, water repellency, and coverage before proceeding with work. Retain sample or mock-up through completion of project.

Surface	Sq.ft./gal.	
	1st coat	2nd coat
TAMMOSHEEN		
Porous surfaces	80-100	80-100
Smooth surfaces	100-150	100-150
H/P PRIMER		
Porous surface	100-150	
Smooth surface	200-300	
MASONRY PRIMER	40-80	

9. **CLEAN-UP INSTRUCTIONS:** Clean tools and application equipment immediately after use with soap and hot water. Clean overspray or drips while still wet with soap and hot water. Dried material may require strong solvents or abrasion for removal.

10. **CAUTIONS:** Concrete surfaces must cure for 28 days prior to application. Do not thin or dilute TAMMOSHEEN. Do not apply TAMMOSHEEN when rain is expected within 12 hours. Do not apply at temperatures below 45°F or above 90°F (10-32.2°C) or over frozen or frost-filled surfaces. Do not apply if weather conditions will not permit complete drying of material before rain, dew or freezing temperatures. Not designed for use on traffic bearing surfaces. Do not apply TAMMOSHEEN to non-absorbent materials such as glass, metal, glazed brick, or glazed tile.

11. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** TAMMOSHEEN is a water based product and nonflammable. Provide adequate ventilation. It can be irritating to the eyes and skin. Wear goggles and protective clothing. In case of eye contact, flood eyes repeatedly with clean water and call a physician immediately. **DO NOT RUB EYES!** Wash hands thoroughly with soap and water after handling or before smoking or eating. Do not take internally. If ingested, do not induce vomiting. Call a physician immediately. **READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE PHONE NUMBER (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.

12. **PACKAGING:** 5 gallon (18.9 liters) plastic pails, 30 gallon (113.6 liter) drums.
Storage: 50 to 90°F (10-32.2°C). Protect from freezing.
Shelf Life: One year properly stored.
Freight Class: Class 55.

13. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES
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 800-862-2667 FAX: 815-522-2323
 www.tamms.com

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