



TECHNICAL DATA SHEET

TAMMOLASTIC®

Elastomeric Decorative and Protective Coating

09660/09940

HIGH-PERFORMANCE COATINGS FINISHES

TAMMS INDUSTRIES MARCH 2002 (Replaces 1/01)

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1. **DESCRIPTION:** TAMMOLASTIC is a protective, decorative, flexible coating formulated from high performance elastomeric acrylic resins. It is designed to waterproof, bridge hairline cracks and enhance the aesthetic appearance of vertical concrete, stucco and masonry surfaces. Tammolastic provides long term protection from severe weather over a wide range of temperatures, dirt, airborne pollutants and is resistant to ultraviolet light degradation. The coating repels water yet allows the substrate to breathe thus preventing pressure from building up behind the coating and causing delamination. TAMMOLASTIC retains its physical properties including excellent adhesion, flexibility, film breathability and resistance to weathering over a long time adding beauty and function to the substrate.

2. **USES:** TAMMOLASTIC is used as a waterproofing, protective, and decorative coating on exterior concrete, stucco, brick and masonry surfaces.

3. **COMPOSITION AND MATERIAL PROPERTIES:** TAMMOLASTIC is an emulsion of 100 percent elastomeric acrylic resin polymers, mold and fungus inhibitors, freeze-thaw stabilizers, and mineral oxide color pigments.

4. **COLORS:** TAMMOLASTIC is available in many standard colors. See the Tamms color chart to make a selection. Tint Bases are also available for universal colorant systems. Other colors are available upon request subject to minimum order quantities. The standard texture is a smooth finish. Contact TAMMS Technical Service Center for additional information.

5. **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:** TAMMS H/P PRIMER is used to prime new/old concrete. Use TAMMS MASONRY PRIMER on unpainted masonry block and similar porous surfaces.

6. **MIXING INSTRUCTIONS:** TAMMOLASTIC should be mixed mechanically 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.

7. **APPLICATION TECHNIQUES: PRIMER:** Airless spray equipment or paint rollers may be used to apply H/P PRIMER. Apply the primer uniformly on the substrate. TAMMOLASTIC may be applied 1-3 hours following primer application using spray, roller or brush. Spray TAMMOLASTIC using the "cross coat" technique of a horizontal pass followed by a vertical pass. Avoid applying excess causing the product to run down the wall or puddle. After application of the first coat, back rolling is required. The second coat can be applied after the first coat is dry, typically in 12-24 hours depending upon ambient conditions. Use rollers with a 1-1/2" nap, and dampen the brushes or rollers with clean water and shake out excess water before use. When using rollers, uniform millage is achieved by rolling the TAMMOLASTIC in one direction. Do not backroll. Apply the second coat of TAMMOLASTIC when the first coat is dry, usually in 12-24 hours.

MATERIAL PROPERTIES AT 75° F

Weight per Gallon	12.0 ± 2 Lbs.	
Viscosity	116-120 KU	
Solids by Weight	65-70%	
Test Method	Criterion	Results
ASTM D412		
Tensile Strength, psi	75°F	190-210
	0°F	550-650
Tensile Elongation, percent	75°F	290-315
	0°F	110-120
ASTM E96		
Water Vapor Transmission	20 mils film	10-11 perms
ASTM D522		
Mandrel Bend (1/8")	-15°F	passes
	0°F	passes
	75°F	passes
ASTM G26		
Weatherometer 6000 Hours	No crazing, cracking, chipping or flaking Light chalk and color change No other deterioration	

CARBON DIOXIDE DIFFUSION		
Diffusion Coefficient	1.2 x 10 ⁻⁶ cm ² sec ⁻¹	
Diffusion Resistance Coefficient	145,000	
Klopfers Criteria	passes	

TT-C 555 B		
Wind Driven Rain Resistance	Water Penetration	none
	Blisters Density/Size	none
ASTM C666		
Freeze Thaw durability (ave.)	300 cycles	97.3%
ASTM C672		
Scaling Resistance - 25 cycles	Visual Rating	0
	Scaling Mass	none
Kentucky Method		
Salt spray resistance	300 hrs 5% solution @90°F ±2°F	No Adhesion Loss
Fed Test 141, Method 6271		
Fungus Growth	28 Days	none

Values presented are typical and not necessarily referenced to create specifications.

8. **COVERAGE:** TAMMOLASTIC coverage rates are approximate, and for estimating purposes only. Surface temperature, 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
TAMMOLASTIC		
Textured surface	50-70	60-80
Smooth surface	60-80	80-100

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 TAMMOLASTIC may require abrasion for removal.

10. **CAUTIONS:** Concrete must have cured at least 28 days prior to application. Do not thin or dilute TAMMOLASTIC. Do not apply if rain is forecast within 12 hours. Do not apply TAMMOLASTIC below 45 or above 90°F (7-32.2°C) or over frozen or frost-filled surfaces. Do not apply if weather conditions will not permit complete drying of TAMMOLASTIC before rain, dew or freezing temperatures occur. Do not apply TAMMOLASTIC to non-absorbent materials such as glass, metal, glazed brick, or glazed tile. Not recommended for traffic surfaces. Not designed for use on traffic bearing surfaces.

11. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** TAMMOLASTIC 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 plastic pails, 30 gallon drums. (Metric: 18.9 and 113.6 l)
Storage: 50-90°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
 3835 State Route 72, Kirkland, IL 60146
 800-862-2667 FAX: 815-522-2323
 www.tamms.com

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