



TECHNICAL DATA SHEET

TAMMSCOAT®

Decorative and Protective Coating

09960/09940

HIGH-PERFORMANCE COATINGS
FINISHES

TAMMS INDUSTRIES
FEBRUARY 2003 (Replaces 4/02)

TAMMS INDUSTRIES
FEBRUARY 2003 (Replaces 4/02)

HIGH-PERFORMANCE COATINGS
FINISHES

09960/09940

1. **DESCRIPTION:** TAMMSCOAT is a high build, water-based, acrylic coating used to protect and decorate sound masonry and concrete surfaces.

FEATURES AND BENEFITS

- *Repels water*
- *Excellent adhesion*
- *Protects from carbonation*
- *Resists mildew and fungus growth*
- *Outstanding color retention*
- *Highly durable*
- *Breathable*
- *Freeze-thaw stable*
- *Custom and standard colors & textures*

APPLICATIONS

Exterior and Interior

- *Concrete*
- *Concrete masonry units ("block")*
- *Brick*
- *Stone*
- *Stucco*

2. **COLORS AND TEXTURES:** TAMMSCOAT is available in standard colors and tint bases for universal colorant systems. FINE or SMOOTH texture finish is standard. Custom colors and textures are available with minimum quantity orders. Contact TAMMS Customer Service for further information

3. **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 pre-cast, formed concrete and other substrates by abrading the surface. Defective concrete and other defects should be routed to sound material and patched using compatible restoration products. **Priming:** For concrete and masonry, especially in hot, windy conditions, priming with TAMMS H/P Primer is recommended. For highly porous concrete block, priming with TAMMS MASONRY PRIMER is recommended

4. **MIXING INSTRUCTIONS:** TAMMSCOAT should be mechanically mixed using a low speed 3/4" inch drill with a mixing paddle. Mix thoroughly to a uniform, smooth consistency. Do not aerate the mix.

Material Properties at 75°F.

	<u>FINE</u>	<u>SMOOTH</u>
Weight per Gallon	12.5 ± 0.5 lbs	11.5 ± 0.5 lbs
Viscosity	118-125 KU	98-105 KU
Solids by Weight	65-68%	55-60%
<u>Test Method</u>	<u>Criterion</u>	<u>Results</u>
ASTM E514-86		
Water Permeability	Reference	TAMMSCOAT
Dampness Shows	10 mins.	None
First Water Shows	12 mins.	None
Dampness, area back of wall @ 4 hours	75%	None
TT-C 555B		
Wind Driven Rain Resistance Rating		E (excellent)
ASTM E96		
Water Vapor Trans	20 mils film	12-14 perms
ASTM G26		
Weatherometer, 6000 hrs		No crazing, cracking, chipping or flaking.
CARBON DIOXIDE DIFFUSION		
Diffusion Coefficient		1.1 x 10 ⁻⁶ cm ² sec ⁻¹
Diffusion Resistance Coefficient		155,900
Klopfer Criteria		passes
ASTM C666		
Freeze Thaw durability	300 cycles	100.9%
ASTM 672		
Scaling Resistance	Visual Rating	0
25 cycles	Scaling Mass	None
ASTM B117		
Salt spray resistance	2000 hrs 5% solution	No Adhesion Loss @ 90 F ± 2F
Fed Test 141, Method 6271		
Fungus Growth	28 days	None
ASTM D2794		
Impact Resistance		No Chipping
FLEXIBILITY TEST		
1" Mandrel		No Chipping or Breaking
ASTM C418		
Abrasion Resistance		0 mils abraded

5. **APPLICATION TECHNIQUES:** Spray TAMMSCOAT FINE using heavy duty spray equipment capable of spraying ceiling texture, plaster or cementitious coatings. To spray TAMMSCOAT SMOOTH, use airless spray equipment with a 0.025 to 0.035 inch orifice size spray tip. Spray TAMMSCOAT 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. Backrolling is recommended during application of the first coat. The second coat can be sprayed after the first coat is dry, approximately 12-24 hours. Do not backroll during the second coat. For hand application use brushes and 1-1/2 inch nap rollers designed for latex paint. Dampen the brushes or rollers with clean water before use. When using rollers, uniform millage is achieved by rolling TAMMSCOAT in one direction only.
6. **COVERAGE:** TAMMSCOAT 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.
9. **FOR BEST RESULTS:** Do not thin or dilute TAMMSCOAT. Do not apply TAMMSCOAT if rain is expected within 8 hours. Do not apply over frost filled surfaces. Do not apply if surface and ambient temperatures are below 45°F. or above 90°F. Do not apply to non-absorbent materials such as glass, metal, glazed brick or glazed tile. Not for use on traffic bearing surfaces. Use HP PRIMER as a prime coat on very porous surfaces or in hot, windy conditions. Contact Tamms Technical Service regarding use of TAMMS MASONRY PRIMER.
10. **ENVIRONMENTAL AND SAFETY PRECAUTIONS:** TAMMSCOAT 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.

sq. ft./gal.

TAMMSCOAT SMOOTH	1st Coat	2nd Coat
Porous surfaces	80-100	80-100
Smooth surfaces	80-120	100-130
TAMMSCOAT FINE	1st Coat	2nd Coat
Porous surfaces	50-65	60-75
Smooth surfaces	75-100	85-110
H/P PRIMER		
Porous surfaces	100-150	
Smooth surfaces	200-300 (if required)	
MASONRY PRIMER	40-80	

7. **PACKAGING:** TAMMSCOAT is packaged in 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
8. **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 mechanical abrasion for removal.

11. **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

WARRANTIES: Seller warrants that the Products do not infringe upon any copyright, patent, or trademark or trade secret, nor violate the proprietary information rights of any third party. Seller warrants that its Products will conform to and perform in accordance with the Product's specifications. THE FOREGOING WARRANTIES, ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. LIMITATION ON LIABILITIES: Because of the difficulty of ascertaining and measuring damages hereunder, it is agreed that, except for claims for bodily injury. Seller's liability to the Buyer or any third party, for any losses or damages, whether direct or otherwise, arising out of the purchase of Product from Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the Product hereunder. **IN NO EVENT WILL SELLER BE LIABLE FOR ANY LOSS OF PROFITS OR OTHER SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**