



TECHNICAL DATA SHEET

TAMMS AG 400 Permanent Anti-Graffiti Coating

09860

GRAFFITI RESISTANT COATINGS
FINISHES

- DESCRIPTION:** TAMMS AG 400 is a two component, solvent based aliphatic urethane coating system for indoor and outdoor use that has excellent anti-graffiti properties. It combines superior chemical and abrasion resistance with excellent adhesion and weathering that make it effective for protecting surfaces that must be cleaned frequently with cleaners and solvents to remove graffiti. TAMMS AG 400 is a three coat system consisting of a Primer, a Basecoat and a Topcoat. TAMMS AG 400 Topcoat can also be used as a graffiti resistant topcoat over most Tamms' epoxy and acrylic coatings.
- USES:** TAMMS AG 400 is used on concrete, concrete block, masonry and steel surfaces that are subject to defacing with graffiti. Typical applications include bridge abutments, tunnels, schools, washrooms and other public buildings.
- COMPOSITION & MATERIAL:** TAMMS AG 400 Basecoat and Topcoat are two part, modified aliphatic polyurethane, solvent-based coatings.

MATERIAL PROPERTIES TAMMS AG 400 BASECOAT & TOPCOAT			
	60°F	75°F	90°F
Pot Life, hrs.	2-3	1-2	1
Dry Time, hrs	4-5	2-4	1-2
Final Cure, days	7	5	3
Mixed Ratio by Volume	Part A : Part B (1:3)		
Viscosity at 75°F	300 – 1,000 cps		
Mixed Solids Content	58-60% by wt: 54-56% by vol		
Flexibility	Passes 1/8" Mandrel test		
Ultraviolet Exposure	Passes after 1,000 hrs		
VOC Content	340 gms/L		
Taber Abrasion Test (CS 17 wheel)	1,000 grams/1,000 cycles: 50 mgs weight loss		
Values presented are typical and not necessarily referenced to create specifications.			

- COLORS:** TAMMS AG 400 Topcoat is available in Clear Gloss and Clear Satin. The Basecoat is available in Clear Gloss, White, Light Gray and Tan. Custom colors are available with minimum quantity orders and special pricing.
- SURFACE PREPARATION: Concrete:** The surface must be structurally sound, clean, dry and free of laitance, dust, dirt, oil, coatings, form release agents and other contaminants. Remove defective concrete, honeycombs, cavities and other defects by routing to sound

material. Rebuild areas with suitable patching materials. Smooth, pre-cast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shot blasting. **Steel:** The surface should be abrasive blasted using clean dry aggregate to a white metal finish and primed immediately using a solvent based priming product. **Priming:** TAMMS AG 400 Basecoat should not be applied directly to unprimed concrete or masonry. If a Clear Gloss or Clear Satin finish is desired, prime the concrete with TAMMS H/P PRIMER. Prime with an epoxy primer if a pigmented (colored) Basecoat is being used.

- MIXING INSTRUCTIONS:** TAMMS H/P PRIMER is a one component product that requires only mixing before use. EPOXY PRIMER, TAMMS AG 400 Basecoat and TAMMS AG 400 Topcoat are two component products consisting of a Part A and Part B. Premix Part A and Part B separately, then combine in a clean container one part by volume of Part A with one part by volume of Part B for EPOXY PRIMER or one part by volume of Part A with three parts by volume of Part B for TAMMS AG 400 Basecoat and Topcoat. Mix thoroughly, using a "Jiffy" or similar mixer, for 3-5 minutes. Scrape the sides of the container and the blades at least once during the mixing. Do not aerate during mixing.
- APPLICATION TECHNIQUES:** The primer can be applied by brush, short nap roller or airless spray equipment. Apply TAMMS AG 400 Basecoat as soon as the primer is tack free but no later than 18 hours after primer application. TAMMS AG 400 Topcoat can be applied after the Basecoat is dry but no longer than 24 hours. TAMMS AG 400 Basecoat and Topcoat can be applied by brush, short nap roller or airless spray equipment. When spraying TAMMS AG 400, use a cross coat technique of a horizontal spray coat followed by a uniform, overlapping vertical spray coat. All runs and sags should be rolled before they dry. Proper safety precautions should be observed during spraying. If a Clear Matte finish is desired, apply Clear Gloss Basecoat followed by Clear Matte Topcoat. TAMMS AG 400 application should be done at surface and ambient temperatures between 50 and 90° F and with humidity below 90%.
- COVERAGE:** TAMMS AG 400 coverage rates are approximate and for estimating purposes only. Surface porosity and texture will determine actual material requirements. Apply samples to all surfaces to be covered. Obtain approval of the architect or owner for the finish and coverage before proceeding with the job. Retain the mock-up through the completion of the job. Typical coverage rates for TAMMS AG 400 are as follows:

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Surface	Coverage (per coat)
Primed concrete/masonry	250-400 sq.ft./gal
TAMMS' epoxy coatings	400-500 sq.ft./gal
Steel	400-500 sq.ft./gal

9. **GRAFFITI REMOVAL:** Graffiti removal should not be attempted until 48 hours after TAMMS AG 400 application. Remove graffiti as soon as possible after the defacing by working on small areas at a time. Use commercially available removers and apply in accordance with the manufacturers recommendations.

10. **CAUTIONS:** Do not mix or apply TAMMS AG 400 at temperatures below 50°F or when humidity is higher than 90%. An epoxy primer applied under Clear TAMMS AG 400 may develop a yellow cast. Provide adequate ventilation and use proper safety equipment during application. Direct application of matte finish to primed concrete may lead to a cloudy, uneven appearance. Concrete surfaces may darken to give a "wet" look after application of TAMMS AG 400. Do not apply TAMMS AG 400 Basecoat to the TAMMS AG 400 Topcoat, adhesion likely will not occur. A test patch is highly recommended to evaluate coverage rates and appearance. TAMMS AG 400 is **FLAMMABLE**; keep away from flames and provide proper protection during application.

11. **CLEAN UP:** Clean tools and equipment immediately following use with Methyl Ethyl Ketone or PM Acetate. Clean drips and over spray while still wet with the same solvents. Dried TAMMS AG 400 will require mechanical abrasion for removal.

12. **PACKAGING & STORAGE:** TAMMS AG 400 Basecoat and Topcoat are available in 4 gallon cases and 20 gallon units. Store between 50° and 90°F. Protect from moisture. Shelf life is 2 years in unopened containers and in protected storage.

13. **ENVIRONMENTAL AND SAFETY PRECAUTIONS:**
Industrial Use Only. TAMMS AG 400 Component A contains aliphatic isocyanates and solvents and is **FLAMMABLE**. Inhalation of vapors at levels above TLV may cause severe respiratory irritation and bronchial spasms. Contact may cause skin or eye irritation. Can cause sensitization after prolonged or repeated exposure. Use safety goggles and chemical resistant gloves. Use only with adequate ventilation or the appropriate NIOSH respirator. Component B contains solvents and polyols and is **FLAMMABLE**. Contact with eyes and skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use safety goggles and chemical resistant gloves. Use only with adequate ventilation or appropriate NIOSH respirator.
First Aid: In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with water for 15 minutes and consult a physician. For respiratory problems, remove person immediately to fresh air and call a physician. If ingested, do not induce vomiting. Call a physician.

Disposal: Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations.

READ MATERIAL SAFETY DATA SHEET BEFORE USING. MATERIAL IS FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN AND ANIMALS. EMERGENCY RESPONSE PHONE NUMBERS ARE (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.

14. **TECHNICAL SERVICE:** For application procedures, surface conditions or other questions not answered please contact:

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