



TECHNICAL DATA SHEET

AQUATHANE® Anti-Graffiti Protective Coating

09965

GRAFFITI RESISTANT COATINGS
FINISHES

TAMMS INDUSTRIES
MARCH 2002

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- DESCRIPTION:** AQUATHANE is a two component, solvent based, aliphatic urethane coating which has excellent anti-graffiti properties for indoor or outdoor use. It combines superior chemical and abrasion resistance with excellent adhesion and weathering that makes it particularly effective for protecting surfaces that need to be cleaned frequently with cleaners and solvents to remove graffiti. AQUATHANE is also an ideal topcoat for most Tamms Epoxy, Urethane coatings and some masonry coatings.
- USES:** AQUATHANE is used on concrete, concrete block, masonry and steel surfaces that are subject to chemical attack, abrasion, severe weathering and graffiti. Typical applications include bridge abutments, tunnels, subways, schools, public buildings, washrooms, kitchens, clean and sanitary rooms, and chemical or manufacturing plants.
- COMPOSITION & MATERIAL:** AQUATHANE is a two component aliphatic polyurethane solvent based coating system which has the following properties:

	Typical Properties		
	60°F	75°F	90°F
Pot Life - hours	8	6	4
Dry Time - hours	4-5	2-4	1-2
Final Cure - days	15	7	5
Mix Ratio by Volume	Part A: Part B (1:3)		
Viscosity @ 75°F	300 - 1000 cps		
Mixed Solids percent:	by weight 58 - 60; by volume 54 - 56		
Flexibility:	Passes the 1/8" Mandrel Test		
Ultraviolet exposure	Passes after 1,000 hours		
VOC levels	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.			

oils, curing compounds, efflorescence, laitance, form release agents and any other contaminants that would interfere with adhesion. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shot blasting. Defective concrete, honeycombs, cracks, cavities and other defects should be routed to sound concrete and patched using compatible materials.

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. Do not use TAMMS H/P PRIMER or DURAPRIME 50 to prime metal.

New/Existing Coatings: Coatings should be cleaned and lightly sanded prior to application of AQUATHANE as a topcoat.

Priming: AQUATHANE should not be applied directly to unprimed concrete or masonry. Prime the concrete or masonry with TAMMS H/P PRIMER or DURAPRIME 50, both are water based primers. Stir the primer before using and apply by brush, roller or airless spray equipment. The primer should be tack free before AQUATHANE is applied. Refer to primer technical data sheet for additional information.

- COLORS:** AQUATHANE is available in clear gloss, clear-matte finish, Light Gray, Dark Gray, Tile Red, and White. Special/Custom colors are available.
- SURFACE PREPARATION: Concrete:** The surface must be structurally sound, dry, free of grease,

MIXING INSTRUCTIONS: Premix AQUATHANE Part A and Part B separately then combine one part by volume of Part A with three parts by volume of Part B in a clean dry container. Using a "Jiffy" or similar type mixer, mix slowly without aerating 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 AQUATHANE as soon as the primer dries but no later than 18 hours after primer application. When spraying AQUATHANE, use a cross coat technique of a horizontal spray followed by a uniform, overlapping vertical spray. All runs and sags should be rolled before they dry. Proper safety precautions should be observed when spraying. When applying the matte finish over primed concrete, apply one coat of gloss finish first followed by one coat of matte finish. This will prevent occurrence of whitish/blotchy areas. AQUATHANE application should be done at surface and ambient temperatures between 50-90°F and when the humidity is below 80%.

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8. **COVERAGE:** AQUATHANE coverage rates are approximate and are for estimating purposes only. Surface porosity and texture will determine actual material requirements. Apply samples to all surface 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 AQUATHANE are as follows:

Surface	Coverage
Primed concrete/masonry	300-400 sq. ft. / gal
DURAL epoxy coatings	450-550 sq. ft. / gal
Steel	450-550 sq. ft. / gal

Two coats are recommended for most applications.

9. **GRAFFITI REMOVAL:** Graffiti removal should not be attempted until 48-72 hours after AQUATHANE application. Remove graffiti as soon as possible after the graffiti attack by working on small areas at a time. Use commercially available graffiti removers and apply in accordance with manufacturers instructions.

10. **CLEAN UP INSTRUCTIONS:** Clean tools and application equipment immediately after use with Methyl Ethyl Ketone or PM Acetate. Clean spills or drips while still wet with solvents. Dried AQUATHANE will require mechanical abrasion for removal.

11. **PACKAGING:** 4 gallon cases and 20 gallon units.
Shelf Life: 1 year unopened, in protected storage.
Storage: 50-90°F.

12. **CAUTIONS:** Apply at ambient temperatures between 50-90°F and at a humidity below 80%. Heavy application of DURAPRIME 50 (2 part WB epoxy) will give a yellowish cast under this clear system. Provide adequate ventilation and use proper safety equipment during application. Excessively high film thicknesses and moisture may cause fine surface blistering. Direct application of matte finish to primed concrete may lead to a cloudy, blotchy appearance. Keep away from sparks, open flame, pilot lights and other sources of ignition. Concrete surfaces may darken to give a "wet look" effect on application. A test patch is highly recommended, to evaluate coverage rates, and appearance.

13. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only. Part A:** contains aliphatic isocyanates; SENSITIZER; IRRITANT. Inhalation of isocyanate vapors or mist above TLV may cause severe respiratory tract irritation and bronchial spasms. Some individuals may develop temporary or permanent sensitization. Avoid skin or eye contact. Use of proper NIOSH respirator, eye goggles and protective gloves is required. Provide adequate ventilation.

Part B: Contains solvents and polyols; IRRITANT; FLAMMABLE. Overexposure to solvents is associated with various neurotoxic effects. Avoid skin/eye contact. Use of respirators and impermeable gloves is recommended. Use with adequate ventilation.

FIRST AID: For skin contact, wash affected area with soap and water. For eye contact, flush eyes with water for 15 minutes and see physician immediately. For respiratory problems, remove person to fresh air. For ingestion, do not induce vomiting. See physician.

DISPOSAL: Collect spills with absorbent material. Dispose of in accordance with local, state or federal regulations. Keep out of reach of children. Read Material Safety Data Sheet before using the product. EMERGENCY RESPONSE PHONE NUMBER: (800) 862-2667 OR (800) 424-9300 CHEMTREC.

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

TAMMS INDUSTRIES
3835 State Route 72, Kirkland, IL 60146
Phone: 800-862-2667 Fax: 815-522-2323
www.tamms.com

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