



TAMOSEAL® FOUNDATION COATING

Cement Based Waterproofing Finish

CEMENTITIOUS AND REACTIVE WATERPROOFING
THERMAL AND MOISTURE PROTECTION 07160

TAMMS INDUSTRIES
MARCH 2002 (Replaces 1/000)

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DESCRIPTION: TAMOSEAL FOUNDATION COATING is a portland cement based waterproofing material specifically designed to waterproof the exterior surface of below grade concrete and masonry. TAMOSEAL FOUNDATION COATING's formulation is similar to concrete and becomes an integral part of the wall when properly applied. TAMOSEAL FOUNDATION COATING fills and seals the pores and voids in the surface but still allows full breathing. TAMOSEAL FOUNDATION COATING is not intended as a decorative finish coat.

USES: TAMOSEAL FOUNDATION COATING waterproofs all exterior, below grade, masonry and concrete surfaces. TAMOSEAL FOUNDATION COATING may effectively be applied to concrete block, brick, stone, precast concrete, formed concrete, or any other properly prepared and structurally sound concrete and masonry surfaces. Typical applications include foundations, and back coating between face brick and back-up units or many other below grade surfaces subject to water penetration. TAMOSEAL FOUNDATION COATING is normally applied to the positive side but may be applied to the negative side when hydrostatic pressures are low and aesthetics are not important.

SURFACE PREPARATION: The surface must be structurally sound, clean and free of dirt, form oil, efflorescence, laitance, curing agents and other contaminants. Remove form marks and other protrusions to prevent "show through." Form a cove at the footer-wall intersection, point and fill all broken corners of block and breaks in the surface and repair all surface defects including cracks and voids with TAMOSEAL FOUNDATION COATING mixed to a mortar consistency. Cut back wires a minimum of 3/4" and patch with SPEED CRETE or SPEED PLUG. Dampen the surface with potable water immediately before TAMOSEAL FOUNDATION COATING application.

MIXING INSTRUCTIONS: TAMOSEAL FOUNDATION COATING must be mechanically mixed using a slow speed motor and mixing blade to thoroughly disperse the ingredients. Do not aerate the mix.

- 1) Pour approximately one half of the required 2 gallons of clean potable water per 50 pound bag into an empty, clean container and begin slow speed mixing.
- 2) Slowly add TAMOSEAL FOUNDATION COATING and liquid as needed to bring the mixture to a heavy, completely blended pancake batter consistency.
- 3) Stop mixing and allow the mixture to "fatten" for 10 minutes.
- 4) Re-mix and if necessary add more liquid to reduce to batter consistency.

Note: To improve bonding and mechanical properties, on smooth or dense concrete and masonry and for all trowel applications, prepare a mixing liquid consisting of a blend of 3 parts potable water with 1 part AKKRO-7T in a clean container. Substitute this mixing liquid blend in place of the water described above. Two gallons of mixing liquid consists of 2 quarts of AKKRO-7T blended with 6 quarts of potable water. 5) When using as a pointing mortar the use of AKKRO-7T mixing liquid is recommended.

APPLICATION TECHNIQUES: Dampen the wall with potable water before starting any TAMOSEAL FOUNDATION COATING application. Make sure all applications carry down to and over the footer forming a cove at the walls-footer intersection.

- 1.) Hand Brush: Apply TAMOSEAL FOUNDATION COATING using a 6 inch cement masons brush. Load bristles with TAMOSEAL FOUNDATION COATING and lay on a heavy coat using long, smooth horizontal strokes. Apply sufficient material to fill all voids. Final strokes should all be in one direction to produce an even texture and finish. Allow first coat to dry for 12 to 24 hours before applying a finish coat.
- 2.) Push Broom: Use a 5 gal pail or wide mouth tub to hold TAMOSEAL FOUNDATION COATING. Dip a 10 inch tampico bristle push broom into the TAMOSEAL FOUNDATION COATING mix just enough to load the bristles. Apply a

Material Properties* at 75°F

<u>Test Method</u>	<u>Criteria</u>	<u>Result</u>
ASTM C109		
Compressive Strength, psi	7 days	4,500
	28 days	6,400
ASTM C348		
Flexural Strength, psi	7 days	350
	28 days	810
ASTM C190		
Tensile Strength, psi	7 days	330
	28 days	390
ASTM C67		
Absorption, %	24 hour soak	4.4
	5 hour boil	3.9
ASTM C672		
Freeze-Thaw Resistance, %	Loss at 50 cycles	1.20
ASTM C666		
Durability Factor, %	After 300 cycles	101.0
ASTM D144		
Chloride Content		0.0098%
ASTM E514		
Water Permeance after coating leaking wall		
Extent of damp area	72 hours	0.0%
Maximum leakage	1 hour	none
Leakage rate	ml/hr	none
Permeance Rating		Excellent
ASTM E96		
Water Vapor Transmission, Perms		12
Standard Building Code (SBCCI), Section 1814		
		Complies

*Test results obtained when AKKRO-7T is used in mixing liquid.

heavy coat using long, even horizontal strokes. Apply sufficient material to fill all voids. Lift the brush at the end of each stroke. Final strokes should all be in one direction to produce an even texture and finish. Do not overbrush. Allow first coat to dry for 12 to 24 hours before applying a finish coat.

3.) Spray: Use heavy duty spray equipment capable of spraying cement coatings or mastics.

4.) Trowel: The use of trowel applications are required in some severe water pressure situations.

COVERAGE: Coverage rates are approximate and will depend on the texture and porosity of the substrate. Under normal waterproofing conditions on block walls, apply two coats of TAMOSEAL FOUNDATION COATING at a rate of 2 pounds per square yard per coat. Under normal waterproofing conditions on concrete foundations apply one coat at a minimum of 2 pounds per square yard and use the AKKRO-7T and water mixing liquid blend. For walls subjected to severe water pressure, apply a base coat at 2 pounds per square yard and trowel on a finish coat at a rate of 1 pound per square yard. For trowel applications add 25 pounds clean silica sand to each 50 pounds of TAMOSEAL FOUNDATION COATING and use the AKKRO-7T and water mixing liquid blend. For Parge coating of masonry units, first mix 25 pounds of clean silica sand to each 50 pound bag of TAMOSEAL FOUNDATION COATING and apply uniformly. Upon completion of the parge coat, apply a coat of TAMOSEAL FOUNDATION COATING at a rate of 2 pounds per square yard.

CLEAN-UP INSTRUCTIONS: Clean mixing and application equipment with water immediately after use. Clean any splatter or spills with water before material sets.

CAUTIONS: Do not apply to frozen or frost filled surfaces or when temperature is below 40°F (4.5°C), or expected to fall below 40°F (4.5°C) in 24 hours. Do not dampen walls excessively. If application is made during hot or windy weather, finished surfaces should be fog sprayed several times during the day to prevent rapid drying.

PACKAGING: Packaged in 50 lb (22.68 kg) poly-lined bags.

Shelf Life: Minimum one year in dry, protected storage.

Freight Class: Class 55.

ENVIRONMENTAL AND SAFETY PRECAUTIONS:
Industrial Use Only. Contains portland cement which is alkaline on contact with water. Do not breathe dust. May cause delayed lung injury (Silicosis). IARC reports crystalline silica may cause cancer in humans. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. DO NOT RUB EYES. Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation. **KEEP AWAY FROM CHILDREN AND ANIMALS. READ MATERIAL SAFETY DATA SHEET BEFORE USING. MATERIAL IS FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. EMERGENCY RESPONSE PHONE NUMBERS ARE (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.**

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

TAMMS INDUSTRIES
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www.tamms.com

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