



# TAMOSEAL

## CEMENT-BASED WATERPROOFING TREATMENT

### DESCRIPTION

**TAMOSEAL** is a cement-based, polymer-modified material designed to waterproof concrete and masonry. When mixed with AKKRO-7T or FLEX-CON acrylic admixture, it becomes suitable to seal vertical and light duty horizontal surfaces.

### PRIMARY APPLICATIONS

- Concrete and block foundations
- Water tanks
- Interior/exterior
- Reservoirs
- Balconies

### FEATURES/BENEFITS

- Waterproofs and decorates
- Tenacious bond
- Becomes an integral part of substrate
- Durable
- Breathable
- Slightly flexible to seal static cracks

### TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

**Material Properties @ 75°F (24°C), 50% RH**

PROPERTY	VALUES
Compressive Strength, ASTM C 109	7 days: 4,500 psi (31.0 MPa) 28 days: 6,400 psi (44.1 MPa)
Flexural Strength, ASTM C 348	7 days: 350 psi (2.4 MPa) 28 days: 810 psi (5.6 MPa)
Tensile Strength, ASTM C 190	7 days: 330 psi (2.3 MPa) 28 days: 390 psi (2.7 MPa)
Absorption, ASTM C 67	24 hour soak: 4.4% 5 hour boil: 3.9%
Freeze-Thaw Resistance, ASTM C 672	Loss at 50 cycles: 1.20%
Durability Factor ASTM C 666	After 300 cycles: 101.0
Working Time	1 hour
Water Permeance ASTM E 514 (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
Salt Spray Resistance	300 hour exposure at 5% solution at 90°F (32°C) resulted in no adhesion loss or deterioration at completion of test.
Fungus Growth Resistance, Fed. Test 141, Method 6272	Resistant
Resistance to Wind Driven Rain, Fed. Spec TT-C-00555	Excellent
Water Vapor Transmission, ASTM E96	12 Perms
Weatherometer, ASTM G 96, 6000 hrs	No crazing, cracking, chipping, flaking, light chalking or color change. No other deterioration.
Minimum # of Coats: 2	Maximum # of Coats: 2
Induction Time: 10 minutes	
Recoat Cure Time: 12 to 24 hrs	Recoat Cure Temp: >40°F (4.4°C)
Final Cure Time: 7 days minimum	Final Cure Temp: > 40°F (4.4°C)

**Appearance:** TAMOSEAL is available in two standard colors: Gray and White. Special colors subjected to minimum order quantities include: Oyster, Alpine, Navajo, Pearl, Silver, and Summer. Custom colors are also available.

### PACKAGING

TAMOSEAL is packaged in 50 lb (22.7 kg) plastic pails and 50 lb (22.7 kg) poly-lined bags.

## SHELF LIFE

18 months in original, unopened package

## SPECIFICATIONS/COMPLIANCES

TAMOSEAL is NSF/ANSI Standard 61 certified for use with potable water.

**Note:** TAMOSEAL is NSF/ANSI Standard 61 certified in the Gray and White colors only.

## COVERAGE

Under normal waterproofing conditions, apply the TAMOSEAL base coat at 2 lb/yd<sup>2</sup> (1.08 kg/m<sup>2</sup>), which equals 225 ft<sup>2</sup>/50 lb bag (21 m<sup>2</sup>/22.7 kg bag). Add a finish coat at 1 lb/yd<sup>2</sup> (0.5 kg/m<sup>2</sup>), which equals 450 ft<sup>2</sup>/50 lb bag (42 m<sup>2</sup>/22.7 kg bag). The total thickness of the two coats will be approximately 1/16 to 1/8 inch, or 125 mils (1.6 to 3.22 mm). **Note:**

Coverage rates are approximate and will depend on the texture and porosity of the substrate.

## DIRECTIONS FOR USE

**Surface Preparation:** New concrete and masonry must be cured 7 days before application of TAMOSEAL. The surface must be structurally sound, clean and free of dirt, oil, and other contaminants. Abrade the surface to provide an absorptive surface. Repair all surface defects including cracks and voids. Allow patches and other surface preparations to cure for 24 hours. Saturate surface dry (SSD) the substrate with potable water prior to TAMOSEAL application.

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

*For Vertical Applications:* One 50 lb (22.7 kg) bag of TAMOSEAL requires 2 gal (7.6 L) of mixing liquid. This consists of 2 qt (1.9 L) of AKKRO-7T blended with 6 qt (5.7 L) of potable water, or 2.3 qt (2.2 L) of FLEX-CON blended with 5.7 qt (5.4 L) of potable water. *For Horizontal Applications:* One 50 lb (22.7 kg) bag of TAMOSEAL requires 2 gal (7.6 L) of mixing liquid. This consists of 1 gallon (3.8 L) of AKKRO-7T blended with 1 gal (3.8 L) of potable water or 1.15 gallon (4.4 L) of FLEX-CON blended with 0.85 gallon (3.2 L) of potable water.

Pour approximately one half of the required mixing liquid into an empty, clean container and begin slow speed mixing. Slowly add TAMOSEAL and the remainder of the mixing liquid as needed to the mixture. Stop mixing and allow the mixture to “fatten” for ten minutes. Re-mix to achieve proper consistency. Use mixed TAMOSEAL within one hour.

**Application:** Saturate surface dry (SSD) the substrate with potable water before starting any TAMOSEAL application.

**Hand Brush:** Apply TAMOSEAL using a 6 in. (15 cm) masonry brush. Load bristles with TAMOSEAL and apply 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. **Push Broom:** Use a 5 gal (18.9 L) pail or wide mouth tub to hold TAMOSEAL. Dip a 10 in. (25 cm) tampico-bristle push broom into the TAMOSEAL and mix just enough to load the bristles. Apply a 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.

**Spray:** Use heavy-duty spray equipment capable of spraying cement coatings or mastics.

**Horizontal Applications:** Use a water-based cure and seal from Euclid Chemical on all horizontal applications for added protection and ease of cleaning.

*Note: Prior to application, it is recommended that a mock up or field sample be made containing all materials that will be coated. Obtain approval of the architect or owner for the final color, texture and coverage rate before proceeding with work. Retain approved sample until the project is completed.*

## CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean any splatter or spills with water before material sets. TAMOSEAL is a cementitious product containing an acrylic additive, and if allowed to dry on the surface, removal becomes extremely difficult.

## PRECAUTIONS/LIMITATIONS

- Do not apply to frozen or frost filled surfaces or when temperature is expected to fall below 40°F (4°C) in the 24 hour period following application.
- Do not use on moderate to heavy traffic bearing surfaces.
- When applied to the inside of open cisterns, tanks, pools, etc., do not fill with water for at least 7 days after application.
- Some colors may chalk or show water marks after weathering.
- When using TAMOSEAL containing AKKRO-7T or FLEX-CON in enclosed tanks or reservoirs, make sure that adequate ventilation is available during the application and the total curing period.
- Not recommended for negative side waterproofing where hydrostatic pressures exceed 8 ft (2.4 m) water head.
- TAMOSEAL should not be applied to surfaces actively leaking.
- In all cases, consult the Safety Data Sheet before use.

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