

TAMOSEAL®

CEMENT BASED WATERPROOFING FINISH

DESCRIPTION

TAMOSEAL is a cement-based, polymer modified material designed to waterproof and decorate concrete and masonry.

PRIMARY APPLICATIONS

- Concrete and block walls
- Foundations
- Water tanks
- Reservoirs
- Manholes
- Interior/exterior

FEATURES/BENEFITS

- Waterproofs and decorates
- Tenacious bond
- Becomes an integral part of substrate
- Durable
- Breathable
- Custom and special colors

TECHNICAL INFORMATION

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

Compressive Strength, psi (MPa) ASTM C 109
7 days.....4,740 (32.7)
28 days.....6,810 (46.9)

Flexural Strength, psi (MPa) ASTM C 348
7 days.....385 (2.6)
28 days.....890 (6.1)

Tensile Strength, psi (MPa) ASTM C 190
7 days.....346 (2.4)
28 days.....410 (2.8)

Absorption, % ASTM C 67
24 hour soak4.6%
5 hour boil4.7%

Freeze-Thaw Resistance, % ASTM C 672
Loss at 50 cycles.....1.20%

Durability Factor ASTM C 666
After 300 cycles.....101.0
Chloride Content ASTM D 144.....0.0098%

Water Permeance ASTM E 514 (after coating leaking wall)
Extent of damp area: 72 hours0.0%
Maximum leakage: 1 hournone
Leakage rate ml/hrnone
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-00555Excellent

Weatherometer ASTM G 96 6000 hours
No crazing, cracking, chipping or flaking. Light chalking and color change. No other deterioration.

Appearance: TAMOSEAL is available in white, oyster and gray. Gray is usually used below grade or as a base coat for other finishes. 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

1 year in original, unopened package.

COVERAGE

Under normal waterproofing conditions, apply TAMOSEAL base coats at 2 lb/yd² (1.08 kg/m²). Add a finish coat at 1 lb/yd² (0.5 kg/m²). The total thickness of the two coats will be approximately 1/16 to 1/8 inch (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: The surface must be structurally sound, clean and free of dirt, oil, and other contaminants. New concrete and masonry must be cured 7 days before application of TAMOSEAL. Abrade the surface to provide an absorptive surface. Remove form marks and other protrusions to prevent "show through". Repair all surface defects including cracks and voids. Allow patches and other surface preparations to cure for 24 hours. Dampen the surface with potable water immediately before TAMOSEAL application.



The Euclid Chemical Company

19218 Redwood Rd. • Cleveland, OH 44110
Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596
www.euclidchemical.com

An **RPM** Company



Mixing: TAMOSEAL must be mechanically mixed using a slow speed motor and mixing blade to thoroughly disperse the ingredients. Do not aerate the mix. One 50 lb (22.7 kg) bag of TAMOSEAL requires approximately two gal (5.6 L) of mixing liquid. Two gal (5.6 L) of mixing liquid consists of 2 qts (1.9 L) of AKKRO-7T blended with 6 qts (5.7 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 and add more mixing liquid if needed to achieve proper consistency.

Application: Dampen the wall with potable water before starting any TAMOSEAL application. **Hand Brush:** Apply TAMOSEAL using a 6” (15 cm) cement masons brush. Load bristles with TAMOSEAL 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. **Push Broom:** Use a 5 gal (18.9 L) pail or wide mouth tub to hold TAMOSEAL. Dip a 10” (25 cm) tampico bristle push broom into the TAMOSEAL 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.

Note: Prior to application, it is recommended that a mock up or field sample be made containing all materials to be coated. Obtain approval of the architect or owner for the final color, texture and coverage rate before preceding 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 below 40°F (4°C).
- Do not use on traffic bearing surfaces.
- Do not fill open cisterns, tanks, etc. with water for at least 7 days.
- Some colors may chalk or show water marks after weathering.
- When using TAMOSEAL containing AKKRO-7T in enclosed tanks or reservoirs, make sure that adequate ventilation is available during application and the total curing period.
- Not recommended for negative side waterproofing where hydrostatic pressures exceed 8 ft (2.4m) water head.
- TAMOSEAL should not be applied to surfaces actively leaking.
- In all cases, consult the Material Safety Data Sheet before use.

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