



# TAMOSEAL FOUNDATION COATING

## CEMENT-BASED WATERPROOFING TREATMENT

EUCLID CHEMICAL

WATERPROOFING

TAMOSEAL FOUNDATION COATING

MASTER FORMAT #:

02 00 03

### DESCRIPTION

**TAMOSEAL FOUNDATION COATING** is a cement-based waterproofing material specifically designed to waterproof the exterior surface of below grade concrete and masonry. When properly applied, this formulation becomes an integral part of the wall, filling and sealing the pores and voids in the surface, while remaining breathable. TAMMOSEAL 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.

### PRIMARY APPLICATIONS

- Concrete block
- Precast concrete
- Formed concrete
- Foundations
- Back coating between face brick and back-up units
- Below grade surfaces subject to water penetration
- Brick and stone

### FEATURES / BENEFITS

- Tenacious bond
- Becomes an integral part of substrate
- Breathable
- Durable

### TECHNICAL INFORMATION

**Material Properties @ 24°C, 50% RH**

**Compressive Strength, MPa ASTM C 109**

7 days.....31.0

28 days.....44.0

**Flexural Strength, MPa ASTM C 348**

7 days.....2.5

28 days.....5.6

**Tensile Strength, MPa ASTM C 190**

7 days.....2.3

28 days.....2.7

**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%

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

**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 hours .....0.0%

Maximum leakage: 1 hour .....none

Leakage rate ml/hr.....none

Permeance rating..... Excellent

**Water Vapor Transmission, ASTM E 96**

Perms .....12

**Standard Building Code**

(SBCCI), Section 1814.....Complies

### PACKAGING

TAMOSEAL FOUNDATION COATING is packaged in 22.7 kg poly-lined bags.

### SHELF LIFE

1 year in original, unopened package

### COVERAGE

**Block Walls:** Normal waterproofing conditions - 2 coats of TAMOSEAL FOUNDATION COATING at a rate of 1.08 kg/m<sup>2</sup> per coat. **Concrete Foundations:** Normal waterproofing conditions - one coat at a minimum of 1.08 kg/m<sup>2</sup> using AKKRO-7T/water mixing liquid blend. **Walls:** Severe water pressure - a base coat at 1.08 kg/m<sup>2</sup> and trowel on finish coat at a rate of 0.54 kg/m<sup>2</sup>. **Trowel Applications:** Add 11.3 kg clean silica sand to each 22.7 kg of TAMOSEAL FOUNDATION COATING and use the AKKRO-7T/water mixing liquid blend. **Parge Coating Masonry Units:** Mix 11.3 kg of clean silica sand to each 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 1.08 kg/m<sup>2</sup>. **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, 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 19mm and patch with SPEED CRETE RED LINE or SPEED PLUG. Saturate-Surface Dry (SSD) the surface with potable water immediately before TAMOSEAL FOUNDATION COATING application.

**Mixing:** 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. Pour approximately one half of the required 7.57 L of clean potable water per 22.7 kg bag into an empty, clean container and begin slow speed mixing. Slowly add TAMOSEAL FOUNDATION COATING and the remaining liquid as needed to bring the mixture to a heavy, completely blended pancake batter consistency. Stop mixing and allow the mixture to “fatten” for 10 minutes. 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, 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. 11.3 L of mixing liquid consists of 1.89 L of AKKRO-7T blended with 5.68 L of potable water. When using as a pointing mortar, AKKRO-7T mixing liquid is recommended.*

**Application:** Dampen the wall with potable water before starting any TAMOSEAL FOUNDATION COATING application. Make sure all applications completely cover the footer forming a cove at the walls/footer intersection.

**Hand Brush:** Apply TAMOSEAL FOUNDATION COATING using a 15 cm masonry brush. Load bristles with TAMOSEAL FOUNDATION COATING 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 18.9L bucket or wide mouth tub to hold TAMOSEAL FOUNDATION COATING. Dip a 25 cm tampico-bristle push broom into the TAMOSEAL FOUNDATION COATING 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. **Trowel:** Trowel applications are required in some severe water pressure situations.

## CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean any splatter or spills with water before material sets.

## PRECAUTIONS / LIMITATIONS

- The general appearance of TAMOSEAL FOUNDATION COATING is gray, but there are no color consistency guarantees. If a more uniform appearance is desired, use TAMOSEAL.
- Do not apply to frozen or frost filled surfaces or when temperature is below 4°C, or expected to fall below 4°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.
- 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.
- In all cases, consult the Safety Data Sheet before use.

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