

# CONCRETE FINISHER

## Cement Based Decorative and Dampproofing Coating

07160

DAMPPROOFING AND WATERPROOFING  
THERMAL AND MOISTURE PROTECTION

1. **DESCRIPTION:** CONCRETE FINISHER is a portland cement based damp proofing coating.

### FEATURES AND BENEFITS

- *Cement based damp proofing product*
- *Trowel or spray applied*
- *Excellent adhesion*
- *Becomes an integral part of the wall*
- *Fills and levels surface*
- *Provides uniform surface textures and color*
- *Highly durable*
- *Breathable, decorative finish*
- *Eliminates the high cost of hand rubbed finishing*

### APPLICATIONS

#### Exterior and Interior

- *Applied above or below grade*
- *Precast and formed concrete*
- *Concrete masonry units ("block")*
- *Brick*
- *Stone*
- *Stucco*
- *Cement plaster*

2. **COLORS AND TEXTURES:** CONCRETE FINISHER is available in White, and Oyster Gray. It is also available in Gray, which should be used as a base coat for other finish coats. Various textures may be developed by the applicator using either trowel and float or spray equipment during application.

3. **SURFACE PREPARATION:** Surface must be structurally sound, and free of contaminants including dust, dirt, curing compounds, form release agents, oil, paint, and old coatings. Cure new concrete and masonry surfaces 28 days. Provide an absorptive surface on all substrates including smooth precast or formed concrete by abrading the surface. Concrete honeycomb, cavities, joints, cracks, voids, tie holes, and other defects must be opened and routed to sound material. Rout broken or uneven brick or block to sound material. Remove form marks and other protrusions to prevent "show through." Repair surface defects, cracks, and voids before applying CONCRETE FINISHER. Cure patches or other surface preparations 1/2 inch (1.3 cm) or less a minimum of 24 hours before applying CONCRETE FINISHER. Deeper fills will require longer curing periods. Dampen surface with potable water immediately before CONCRETE FINISHER application.

4. **MIXING INSTRUCTIONS:** CONCRETE FINISHER must be mechanically mixed using a slow speed motor and mixing blade to thoroughly disperse ingredients. A mortar mixer may be used for larger quantities. Do not aerate the CONCRETE FINISHER mix.

- 4.1 Make up mixing liquid by blending 3 parts potable water with 1 part AKKRO-7T in a clean container.
- 4.2 Pour approximately one half of the required mixing liquid into an empty, clean container, and begin slow speed power mixing while slowly adding CONCRETE FINISHER.
- 4.3 Gradually add more CONCRETE FINISHER and mixing liquid to bring the mixture to the consistency of a heavy, completely blended "pancake batter."
- 4.4 Stop mixing, and allow material to "fatten" for 10 minutes.
- 4.5 When "fattened", remix, and if necessary, add more mixing liquid to adjust mixture to proper application consistency.
- 4.6 One 70 pound (31.8 kg ) bag of CONCRETE FINISHER will require approximately 8 to 9 quarts (7.6 - 8.6 liters) of mixing liquid when mixed for spray consistency, and 6 to 7 quarts (5.7 - 6.7 liters) when mixed to trowel consistency. For estimating purposes, one bag of CONCRETE FINISHER will require approximately 2-3 quarts (1.9 - 2.81) of AKKRO-7T.

Material Properties at 75°F		
Test Method	Criterion	Result
<b>ASTM C109</b>		
Compressive Strength, PSI	7 days	2,700
	28 days	4,000
<b>ASTM C348</b>		
Flexural Strength, PSI	7 days	400
	28 days	850
<b>ASTM C190</b>		
Tensile Strength, PSI	7 days	310
	28 days	398
<b>ASTM D2794</b>		
Impact Resistance, in. lbs		28
<b>ASTM D4541</b>		
Shear Bond, psi		310
<b>ASTM C67</b>		
Absorption, PCT	24 hour soak	4.9%
	5 hour boil	5.3%
Freeze-Thaw Resistance, PCT	50 cycles	-0.67% Loss
<b>ASTM C666</b>		
Durability Factor, PCT	300 cycles	97.6%
<b>ASTM C144</b>		
Chloride Content, PCT		0.0098%
<b>Fed Test 141</b>		
<b>Method 6271-1</b>	Fungus growth	resistant
<b>ASTM G26</b>		
Weatherometer 6000 hours	No crazing, cracking, chipping or flaking Light chalk and color change. No other deterioration.	
<b>Salt Spray Resistance</b>		
5% solution Q 90°F 300 hour exposure	No adhesion loss or deterioration at completion of the test	

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5. **APPLICATION TECHNIQUES:** Dampen wall with potable water before starting application. CONCRETE FINISHER should be applied while the wall is damp.

5.1 **Trowel Application** - Used when the wall surface is uneven, and when it is necessary to level and hide varying surface textures. Trowel apply a base coat, and when partially set, double back with additional material. After the surface has sufficiently set, lightly float to an even, uniform texture using a sponge rubber float. Do not exceed 3/8 inch (1 cm) for each lift. To prevent "shadowing" or "photographing" caused by joints, small holes, or uneven absorption, the first coat must cure a minimum of 5 days before the finish coat is applied. Proper trowel and float procedures will result in an even, uniform, attractive sand finish. A complete range of textures can be obtained by using standard plaster finishing techniques.

5.2 **Spray Application** - Used primarily when large areas are to be coated and when it is not necessary to level the wall [Spray applications will seal and decorate, but will not level the surface or fill holes]. Some variance in the spray texture can be expected. Apply a light spray coat to retard surface absorption. Then, double back with additional material before the base coat has lost its sheen. For best results, use an overlapping, circular spray pattern. Do not exceed 3/8 inch (1 cm) for each lift. Two coats of CONCRETE FINISHER will be necessary to prevent "shadowing" or "photographing" caused by joints, small holes, or uneven absorption. Cure the first coat for a minimum of 5 days before the final coat is applied. **Use only high production plaster spray machines or hopper type texture spray guns. Do not use high pressure or airless spray equipment.** The AKKRO-7T to water ratio may require adjustment when spraying CONCRETE FINISHER. Contact Tamms Technical Service for additional information.

6. **COVERAGE:** The CONCRETE FINISHER coverage rates are approximate and for estimating purposes only. Surface texture, porosity, and thickness of coating will determine actual material requirements. Apply samples to all surfaces to be protected. Obtain approval of Architect or Owner for color, texture, and coverage before proceeding with work. Retain sample or mock-up through completion of project. One 70 pound (31.8 kg) bag of CONCRETE FINISHER will cover approximately 55-70 square feet applied 1/8 inch (5.1 - 6.5 sq.m at 3.2 mm). Leveling uneven surfaces will require more material. Estimate 9-12 pounds of CONCRETE FINISHER per square yard for two coats approximately 1/8 inch thick (4.9 x 6.5 kg/sq.m at 3.2 mm).

7. **CLEAN-UP INSTRUCTIONS:** Clean mixing and application equipment with water immediately after use. Clean splatter or spills with water before material sets. CONCRETE FINISHER is a cementitious product containing an acrylic additive, and if allowed to dry on the surface, removal becomes extremely difficult.

8. **CAUTIONS:** Do not apply to frozen or frost filled surfaces or when temperature is below, or expected to fall below 40°F (4.4°C) in 24 hours. Do not use on traffic

bearing surfaces. Do not fill open cisterns, tanks, reservoirs, etc. with water for at least 7 days. When using CONCRETE FINISHER containing AKKRO-7T in enclosed tanks or reservoirs, ensure that adequate ventilation is available during application and the total curing period. Allow minimum 24 hours drying time before application of a liquid polymer decorative coating. CONCRETE FINISHER is not recommended where hydrostatic pressure is present. Some colors of CONCRETE FINISHER may chalk or show water marks upon weathering.

9. **ENVIRONMENTAL AND SAFETY PRECAUTIONS:** 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. **READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE: 1-800-862-2667 (TAMMS) 1-800-424-9300 (CHEMTREC).

10. **PACKAGING:** 70 pound (31.8 kg) polylined bags.

**Storage:** Protect from moisture.

**Shelf Life:** One year properly stored.

**Freight Class:** Class 55.

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

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800-862-2667 FAX:815-522-2323  
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