

# AKKRO<sup>®</sup>-7T

## LIQUID BONDING ADMIXTURE

### DESCRIPTION

**AKKRO-7T** is a non-redispersable, liquid bonding admixture used to produce polymer modified concrete and mortar. AKKRO-7T is a milky white, water based emulsion of high solids acrylic polymers and modifiers. AKKRO-7T is non-yellowing, and has excellent resistance to ultraviolet degradation, heat and most common chemicals. AKKRO-7T does not alter the color of the mixture.

### PRIMARY APPLICATIONS

- Cement based coatings, toppings, patching mortars, leveling compounds, stucco, and terrazzo
- Mixing liquid for TAMOSEAL, CONCRETE FINISHER, TAMMS SBC AND TAMMS STUCCO FINISH

### FEATURES/BENEFITS

- Increases flexural and tensile strength
- Improves bond strength
- Reduces shrinkage
- Resists water penetration
- Protects from freeze-thaw damage
- Non-yellowing

### TECHNICAL INFORMATION

Typical Engineering Data	Unmodified Sand-Cement	Sand-Cement with Akkro-7T
<b>ASTM C 109</b> psi (MPa) Compressive Strength		
3 days	1,640 (11.3)	2,890 (19.9)
7 days	2,345 (16.2)	3,410 (23.5)
<b>ASTM C 190</b> psi (MPa) Tensile Strength, 7 days	246 (1.7)	510 (3.5)
<b>ASTM C 78</b> psi (MPa) Flexural Strength, 7 days	410 (2.8)	1,096 (7.6)
<b>ASTM C 321</b> psi (MPa) Bond Strength, 7 days	56 (0.4)	486 (3.3)
<b>Material Properties</b>		
Weight per gal.....	8.65 lb (3.9 kg)	
VOC content.....	< 10 g/L	
Specific gravity.....	1.04	

### PACKAGING

AKKRO-7T is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails and 6/1 gal (3.79 L) plastic bottles.

### SHELF LIFE

1 year in original, unopened container.

### SPECIFICATIONS/COMPLIANCES

- Complies with ASTM C 1059, Type 2
- USDA compliant

### DIRECTIONS FOR USE

**Surface Preparation:** Surface must be structurally sound, clean, free of dust, dirt, oil, curing or form release compounds, paint, laitance, efflorescence and other contaminants. New concrete and masonry surfaces must be cured 7 days. Provide an absorptive surface on smooth precast or formed concrete by abrading the surface. Follow the surface preparation directions for the product in which AKKRO-7T is being used as an admixture.



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**Mixing:** Stir AKKRO-7T slowly and thoroughly using slow speed mixing equipment and a clean container. Do not aerate the AKKRO-7T.

**Recommended Mixtures:**

**Bonding Slurry:** Dry mix 1 part portland cement with 3 parts dry sand and add undiluted AKKRO-7T to produce a pourable slurry coat. Brush mixture thoroughly into voids and pores of surface to eliminate air pockets. Before slurry coat dries, follow immediately with patching materials that are compatible with portland cement.

**Patches, Overlays And Toppings:** For depths 1/2 in (12.7 mm) or greater, mix 1 part AKKRO-7T with 3 parts potable water. Proportion dry sand, cement, aggregate and add measured amount of mixing liquid. Featheredging and repairs less than 1/2 in (12.7 mm) deep will require additional AKKRO-7T in the mix.

**Terrazzo:** Make up a mixing liquid of 1 part AKKRO-7T to 3 parts potable water.

**Thin Coat Wall Applications:** Manufactured wall coatings including TAMOSEAL, CONCRETE FINISHER, TAMMS SBC, and TAMMS STUCCO FINISH; mix 1 part AKKRO-7T to 3 parts potable water for mixing liquid, or as directed in instructions for mixing coating.

**Field Mixed Stucco:** Mix 1 part AKKRO-7T to 3 parts potable water.

**Cement Plaster Coatings:** Applications 3/8 in (0.95 cm) or less; use 1 part AKKRO-7T to 2 parts potable water. Applications over 3/8 in (0.95 cm); use a 1:3 mixture.

**Pointing Mortars:** Manufactured tuckpointing mortars such as JOINT-DRI and other special mortars for thin applications; mix 1 part AKKRO-7T to 3 parts potable water for mixing liquid.

**Application:** Use only light pressure on trowel and finish with as few strokes as possible. Keep trowel clean and wet to prevent sticking. Do not over-trowel. Mixes with AKKRO-7T do not normally require curing, but on hot, dry days, or windy days, it is advisable to cover with moist burlap for 24 hours or as recommended. Air-cure the surface for 2 to 4 days for normal use, and 4 to 7 days for heavy traffic areas. Refer to "PRECAUTIONS," for curing water containment structures.

## CLEAN-UP

Clean tools and equipment with detergent and water immediately following use. Clean drips, spills and smears while mix is still wet. Mixes containing AKKRO-7T are extremely difficult to remove if allowed to dry before cleaning.

## PRECAUTIONS/LIMITATIONS

- Do not apply mixes modified with AKKRO-7T when the temperature is below, or expected to fall below 40°F (4°C) within 48 hours.
- Do not use with air entrained cements.
- Excessive moisture and high humidity will slow curing time.
- Provide adequate ventilation when using AKKRO-7T in enclosed tanks, reservoirs or other areas where air circulation is limited.
- Air-cure cisterns, tanks or pools for minimum 7 to 10 days before filling with water.
- Concrete mix designs using AKKRO-7T should be evaluated and tested for performance and application properties prior to use.
- Store between 40°F to 90°F (4°C to 32°C). Protect from freezing.
- If frozen, place in a warm room to thaw. Do not use direct heat or force thawing.
- In all cases, consult the Material Safety Data Sheet before use.

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