



# AKKRO-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 colour of the mixture.

### PRIMARY APPLICATIONS

- Cement based coatings, toppings, patching mortars, leveling compounds, stucco, and terrazzo
- Mixing liquid for TAMOSEAL M

### FEATURES / BENEFITS

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

### TECHNICAL INFORMATION

PROPERTY	UNMODIFIED SAND-CEMENT	SAND-CEMENT WITH AKKRO-7T
Compressive Strength, MPa ASTM C 109	3 days: 11.3 7 days: 16.2	3 days: 19.9 7 days: 23.5
Flexural Strength, 7 days, MPa ASTM C 78	2.8	7.6
Bond Strength, 7 days, MPa ASTM C 321	0.4	3.3
Tensile Strength, 7 days, MPa ASTM C 190	1.7	3.5
PROPERTY OF AKKRO-7T		VALUE
Specific Gravity		1.04

Properties determined at laboratory conditions.

### PACKAGING

AKKRO-7T is packaged in 5L and 20L jerry cans.

### SHELF LIFE

1 year in original, unopened container

### SPECIFICATIONS/COMPLIANCES

Complies with ASTM C 1059, Type II

### 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.

**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 12.5 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 12.5 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.

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

**Cement Plaster Coatings:** Applications 10 mm or less; use 1 part **AKKRO-7T** to 2 parts potable water. Applications over 10 mm; use a 1:3 mixture.

**Pointing Mortars:** Manufactured tuckpointing mortars 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 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 4°C within 48 hours.
- Do not use with air entrained cement-based products.
- 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 4°C to 32°C. Protect from freezing.
- In all cases, consult the Safety Data Sheet before use.

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