



AKKRO-7T

ACRYLIC LATEX 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 against freeze-thaw damage
- Non-yellowing
- Does not re-emulsify when exposed to water

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

PROPERTY	UNMODIFIED SAND-CEMENT	SAND-CEMENT WITH AKKRO-7T
Compressive Strength, psi (MPa) ASTM C109	3 days: 1,640 (11.3) 7 days: 2,345 (16.2)	3 days: 2,890 (19.9) 7 days: 3,410 (23.5)
Flexural Strength, 7 days, psi (MPa) ASTM C78	410 (2.8)	1,096 (7.6)
Bond Strength, 7 days, psi (MPa) ASTM C321	56 (0.4)	486 (3.3)
Tensile Strength, 7 days, psi (MPa) ASTM C190	246 (1.7)	510 (3.5)

PROPERTY OF AKKRO-7T	VALUE
Solids Content (by weight)	29%
Unit Weight, Specific Gravity	8.65 lbs/gal, 1.04
VOC Content	≤ 10 g/L

PACKAGING

AKKRO-7T is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8 L) jugs (6 jugs per case).

SHELF LIFE

2 years in original, unopened container

SPECIFICATIONS/COMPLIANCES

Complies with ASTM C1059, 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 for at least 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 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 (9.5 mm) or less; use 1 part AKKRO-7T to 2 parts potable water. Applications over 3/8 in (9.5 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 40°F (4°C) within 48 hours.
- Do not use with air entrained cement-based products.
- Do not use AKKRO-7T by itself as a bonding agent. It must be mixed with cement.
- 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.
- In all cases, consult the Safety Data Sheet before use.

Rev. 01.19

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