

BONDING AGENTS AND ADHESIVES

Master Format #: 03 05 00



AKKRO-7T

ACRYLIC LATEX LIQUID BONDING ADMIXTURE

EUCLID CHEMICAL

PACKAGING

- 1 gal (3.8 L) jug (6 per case)
Code: TL6201501
- 5 gal (18.9 L) pail
Code: TL6201505
- 55 gal (208 L) drum
Code: TL6201555

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.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Complies with ASTM C1059, Type II

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.

PRODUCT CHARACTERISTICS

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

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

TECHNICAL INFORMATION

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

| Test Method | Test Property | Unmodified Sand-Cement | Sand-Cement with Akkro-7T |
|-------------|---------------------------|---|--|
| ASTM C109 | Compressive Strength | 3 days: 1,640 psi (11.3 MPa) 7 days: 2,345 psi (16.2MPa) | 3 days: 2,890 psi (19.9 MPa) 7 days: 3,410 psi (23.5 MPa) |
| ASTM C78 | Flexural Strength, 7 days | 410 psi (2.8 MPa) | 1,096 psi (7.6 MPa) |
| ASTM C321 | Bond Strength, 7 days | 56 psi (0.4 MPa) | 486 psi (3.3 MPa) |
| ASTM C78 | Tensile Strength, 7 days | 246 psi (1.7 MPa) | 510 psi (3.5 MPa) |

| 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 |

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.

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. 05.22

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.