



# Shep Acrylic

## Liquid Bonding Admixture

### Description

Shep Acrylic is a non-redispersable, liquid bonding admixture used to produce polymer modified concrete and mortar. Shep Acrylic is a milky white, water based emulsion of high solids acrylic polymers and modifiers. Shep Acrylic is non-yellowing and has excellent resistance to ultraviolet degradation, heat and most common chemicals. Shep Acrylic 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

### 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 Shep Acrylic is being used as an admixture.

**Mixing:** Stir Shep Acrylic slowly and thoroughly using slow speed mixing equipment and a clean container. Do not aerate the Shep Acrylic.

### Recommended Mixtures:

**Bonding Slurry:** Dry mix 1 part portland cement with 3 parts dry sand and add undiluted Shep Acrylic 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 Shep Acrylic 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 Shep Acrylic in the mix.

**Terrazzo:** Make up a mixing liquid of 1 part Shep Acrylic 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 Shep Acrylic to 3 parts potable water for mixing liquid, or as directed in instructions for mixing coating.

**Field Mixed Stucco:** Mix 1 part Shep Acrylic to 3 parts potable water.

**Cement Plaster Coatings:** Applications 3/8 in (9.5 mm) or less; use 1 part Shep Acrylic 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 Shep Acrylic to 3 parts potable water for mixing liquid.

**Application & Finish:** 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 Shep Acrylic 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

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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 Shep Acrylic are extremely difficult to remove if allowed to dry before cleaning.

### Technical Data

Property	Unmodified Sand-Cement	Sand-Cement with Shep Acrylic
Compressive Strength, psi (MPa) ASTM C 109	3 days: 1,640 (11.3)	3 days: 2,890 (19.9)
	7 days: 2,345 (16.2)	7 days: 3,410 (23.5)
Flexural Strength, 7 days, psi (MPa) ASTM C 78	410 (2.8)	1,096 (7.6)
Bond Strength, 7 days, psi (MPa) ASTM C 321	56 (0.4)	486 (3.3)
Tensile Strength, 7 days, psi (MPa) ASTM C 190	246 (1.7)	510 (3.5)

Property of Shep Acrylic	Value
Unit weight	8.65 lb/gal
VOC content	< 10 g/L
Specific gravity	1.04

Properties determined at laboratory conditions.

### Packaging

Shep Acrylic is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails and cases of 6/1 gal (3.79 L) plastic bottles.

### Shelf Life

One year in original, unopened container.

### Specifications/Compliances

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

### Precautions

- Do not apply mixes modified with Shep Acrylic 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.
- Excessive moisture and high humidity will slow curing time.
- Provide adequate ventilation when using Shep Acrylic 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 Shep Acrylic 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.

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