



# PRO-CRYLIC

## ACRYLIC POLYMER ADMIXTURE FOR CONCRETE, MORTAR AND PLASTER

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Bonded Materials Company • 91-400 Komohana St. • Kapolei, Hawaii 96707-1716 • Phone (808) 673-2000 • Fax (808) 673-2020

### DESCRIPTION

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PRO-CRYLIC is an acrylic polymer liquid admixture designed to improve the adhesion and other physical properties of portland cement mortar, plaster and concrete. PRO-CRYLIC is a milky white liquid that is classified by the American Concrete Institute as a non-reemulsifiable bonding admixture for general-purpose bonding and to produce polymer modified mortar. Portland cement based mixes prepared with PRO-CRYLIC will exhibit improved adhesive qualities, moisture retention, flexibility, toughness and chemical resistance.

Mixes prepared with PRO-CRYLIC may be used for patching, restoring and rehabilitating concrete and masonry such as concrete floors, columns and beams, sidewalks, corridors, lanais, driveways, curbs and steps, loading docks and ramps, precast concrete and pipe. Suitable for both interior and exterior use, PRO-CRYLIC may also be used as an admixture for overlayments and specialty resurfacing mortars.

### USES

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**FOR USE AS AN ADMIXTURE:** PRO-CRYLIC may be substituted for a portion of the water content in mortar, plaster or concrete to improve most all the physical properties of portland cement mixes. Modified mixes will resist cracking and chemical degradations due to chloride exposure. PRO-CRYLIC may be used as an admixture in concrete, portland cement, plaster, stucco, mortar, terrazzo, thinset and tile grout.

**FOR USE AS A BONDING ADHESIVE:** When used in a slurry/scrub bond coat mortar, PRO-CRYLIC produces an outstanding bond between new and existing concrete.

### SPECIFICATIONS

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#### Typical Properties

Appearance	Milky White Liquid
Solids	25%±1%
Specific Gravity	1.03
Pounds per Gallon	8.60
Bond Strength (ASTM C 1042)	>1250 psi @ 7 days air cure. Portland cement and PRO-CRYLIC scrub coat used as glue line.

### APPLICATION

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**SURFACE PREPARATION:** All work surfaces must be clean and structurally sound to ensure proper bond. For concrete, plaster, mortar and stucco, remove from the work surface all deteriorated concrete and mortar particles, dirt, oil, grease, curing compounds and other bond inhibiting materials. Mechanically scarify work surfaces as needed to obtain a surface fractured aggregate condition with minimum profile of  $\pm 1/16$  inch. Dampen surface with clean water to a saturated surface dry condition with no standing water.

**FOR USE AS AN ADMIXTURE:** Mix or stir the material immediately before use to a uniform consistency and substitute a portion of mix water with PRO-CRYLIC as follows:



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For improving adhesion of cementitious patching materials and waterproof coatings: Use 1 part PRO-CRYLIC to 2-3 parts by equal volume clean water.

For overlayments, toppings, and most plaster, mortar and stucco applications:

Suggested Mortar Mix Design (15% Polymer Solids):

Sand	3-3.25 cubic feet
Portland Cement	1 sack (94#)
PRO-CRYLIC	6.5 gallons
Water	As required

This mix will yield about 3-3.25 cubic feet of mortar, which will cover about 80 square feet at an average thickness of ½ inch.

### MIXING AND PLACEMENT INSTRUCTIONS

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**MECHANICAL MIXING:** Add PRO-CRYLIC to a rotating mortar mixer and then add the sand and cement in the required amounts. Mix slowly to prevent beating air bubbles into the mix. Add water, if required, to obtain proper consistency. Do not mix more than 5 minutes. Discharge batches from the mixer as rapidly as possible. Rinse mixer with clean water before mortar adheres to equipment.

**HAND MIXING:** Pre-blend the sand and cement in a mortar box. Add PRO-CRYLIC and thoroughly mix. Add water, if required, only after the PRO-CRYLIC is completely mixed throughout the mortar.

**PLACEMENT PROCEDURE:** To properly prepared work surfaces, scrub mortar modified with PRO-CRYLIC into the substrate using stiff bristled brush or broom. Place additional mortar over the scrub coat, strike off, trowel and finish at once. Over-finishing and troweling should be avoided. Areas subjected to high temperature and wind require extra care to minimize rapid drying and moisture loss.

**CURING:** Wet cure with water or wet burlap for the first 24 hours and then air cure for 3 days. Resurfaced areas may be opened to foot traffic after 24 hours, light traffic in 2-4 days and heavy traffic in 4-7 days.

**CLEAN-UP:** Mortars modified with PRO-CRYLIC will adhere to most materials. Care should be taken to wash wet mortar off all tools and mixing equipment before it sets.

**IMPORTANT:** The suggested mix ratios, mix design and procedures are suitable for most conditions. Where bonding is extremely critical and/or where hot, windy and dry conditions prevail, contact your Bonded representative and prepare a test application to assure desired results.

### LIMITATIONS

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The minimum recommended application temperature is 45°F; temperature must remain at or above 45°F for at least 48 hours. High humidity and excessive moisture will retard curing time. Do not use in enclosed areas where air circulation is limited. Do not immerse continuously in water until after at least 3-4 days air cure time. Prolonged freezing may damage contents. Material may be used after freezing if it is allowed to thaw at room temperature and can be stirred to an even, smooth consistency. Do not use as a surface-bonding adhesive.



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### PACKAGING AND YIELD

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1 gallon jugs, 5 gallon pails and 55 gallon drums.

### SALES OFFICES

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OAHU  
150 Puuhale Road  
Honolulu, Hawaii 96819  
Ph: (808) 832-1155  
Fx: (808) 832-1151

KONA  
73-5568 Maiiau St, Bay 2  
Kailua-Kona, Hawaii 96740  
Ph: (808) 326-2477  
Fx: (808) 329-5181

SAIPAN  
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Saipan, MP 96950  
Ph: (670) 322-2477  
Fx: (670) 322-0305

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PHOENIX, ARIZONA  
4330 N. 43<sup>rd</sup> Ave., Ste. B-4  
Phoenix, AZ 85031  
Ph: (623) 873-0001  
Fx: (623) 873-0007

### GUARANTEE

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Recommendations for the use of this product are based on tests we believe to be reliable. Bonded products will perform according to specifications and technical recommendations when applied as directed. Bonded is not responsible for results where the product is used under conditions beyond our control. Under no circumstances will Bonded Materials Company be liable for damages to anyone in excess of the purchase price of the product.

**Bonded products are intended for industrial use only. Keep away from children. Observe product caution.** Every reasonable precaution is taken in the manufacture of our products and compiling of data to assure that they shall comply with exacting standards. Information given is correct to the best of our knowledge and the products, as sold, are satisfactory for the purpose proposed. However, no guaranty of the results, using these products and data, is given because every possible variation in the methods of their use or conditions under which they are applied cannot be anticipated. Not responsible if the material should be used in a manner to infringe any patent held by others.