

CAPBOND AC-300

ACRYLIC ADDITIVE FOR CEMENT MORTARS AND TOPPINGS

DESCRIPTION

CAPBOND AC-300 is a high solid, low viscous acrylic latex based emulsion. It is used as a liquid bonding admixture and as concrete / mortar modifier for improving the physical properties, cure and adhesion of portland cement and gypsum-based mixes.

FEATURES

CAPBOND AC-300 is a milky white aqueous emulsion of high solid acrylic polymers and modifiers. It is non-yellowing and has excellent resistance to ultraviolet degradation, heat and most common chemicals. Its excellent resistance to alkalis, ensures compatibility with all common types of cements.

USES

CAPBOND AC-300 is used in cement based coatings, bonding slurries, toppings, patch repairs, leveling compound, stucco, terrazzo and mortar. **CAPBOND AC-300** improves the tensile, flexural, compressive, wearing, adhesive, cohesive, curing and water proofing properties while reducing shrinkage cracking and freeze-thaw damage. Mixes containing **CAPBOND AC-300** may be used on above or below grade interior or exterior cementitious surfaces.

ADVANTAGES

- Strong adhesion to aged concrete in wet and dry conditions.
- Improved workability.
- Improved resistance to water, de-icing salts, acids, alkalis, oils and organic chemicals.
- Enhanced flexural, compressive and tensile strength.
- Reduced drying shrinkage.
- Improved crack resistance.
- Enhanced impact resistance.
- Resists saponification and demonstrates good exterior durability.

TYPICAL PROPERTIES

Appearance:

Milky white liquid drying to colorless transparent film.

Density:

1.02 kg/liter at 25 °C.

Solid content:

34±2% by weight.

pH:

8 to 9.

Chloride content:

Nil to BS 5075.

Flammability:

No tendency to flash or ignite.

Compatibility with cement:

Compatible with all types of Portland cement.

Toxicity:

Non-toxic.

Applicable standards

ASTM C 1059 & ASTM C 1438

Shelf life:

Minimum 12 months in sealed original containers, under recommended storage conditions.

DIRECTIONS FOR USE

Surface preparation:

Surfaces must be structurally sound, clean, free of dust, dirt, oil, applied curing compounds, form release agents, paint, laitance, efflorescence and other contaminants. New concrete and masonry surface must be cured for minimum 28 days. Provide a key to all substrates including smooth pre-cast or formed concrete by abrading the surface.

Recommended mixes:

Following are the mortar mix guide formulations based on **CAPBOND AC-300**. Test application should be made on questionable surfaces.

Bonding slurry : **CAPBOND AC-300** compounded with 1:1 Portland cement can be brush applied onto aged cementitious surfaces to provide a durable bond for new renders and toppings.

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Repair mortar :

Sand (zone-2)	150 kg
OPC	50 kg
CAPBOND AC-300	10 to 15 kg
Water	As required to adjust consistency.

CAPBOND AC-300 can be included in two pack repair mortar formulations to improve adhesion to aged concrete.

Heavy duty mix:

Sand (zone-2)	150 kg
OPC	50 kg
Aggregate 2-5 mm	150 kg
CAPBOND AC-300	10 to 15 kg
Water	As required to adjust consistency.

CAPBOND AC-300 modified systems exhibit good interlayer adhesion, abrasion, impact resistance and resist penetration of water, oil solvents or acids.

Application:

Use only light pressure on trowel and finish with as few strokes as possible. Keep trowel clean and wet to prevent sticking of material. Do not over trowel.

Curing:

Cure the system as per the standard curing practice. Either wet cure or use appropriate curing compounds, recommended CURACOAT-R and CURACOAT-P.

CLEANING OF TOOLS

Clean tools and equipment with detergent and water immediately following use. Clean drips, spills and smears while mix is still wet. Mixes containing CAPBOND AC-300 are extremely difficult to remove, if allowed to dry.

SAFETY PRECAUTIONS

CAPBOND AC-300 is non-hazardous in normal use. Contact with eye or skin should be cleaned or washed immediately with abundant water.

PACKAGING

CAPBOND AC-300 is supplied in 200 kg Barrels, 5 kg and 20 kg cans.

STORAGE

- Store in sealed conventional containers, protected from extreme weather conditions.
- Stir well before use, if stored for a long time.

TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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