

# AQUALATEX C10

Acrylic Additive for Cements Mortars and Toppings



## PRODUCT DESCRIPTION

Aqualatex C10 is a high quality viscous acrylic emulsion bonding agent used for concrete repairs, especially areas where good adhesion is required. When mixed with a cement/sand or gravel combination, Aqualatex C10 becomes an effective patching and topping mortar. It is also designed for use as a polymer modifier in mortars and concretes to increased tensile, flexural and bond strengths, magnitude resistance to water and hydrolysis.

## FEATURES

- Reduces water permeability
- Can be used with virtually all types of cement.
- Suitable for interior and exterior applications.
- Reduce dry shrinkage.
- Improve crack resistance.
- Excellent adhesion to a variety of substrates.
- Excellent resistance to abrasion, freeze/thaw cycles, chemicals and deicing salts.
- Helps to bond old and new concrete together

## USES

For repair and bonding of concrete:

- It is suitable for use as a bonding agent for bonding new concrete to old concrete and masonry surfaces.
- It is suitable for use in cement based coatings, toppings, patches, leveling compound, stucco, terrazzo and mortar.
- Applicable in conjunction with mortar or concrete in resurfacing and repairing concrete floors.
- It is can be used on above or below grade, internal or exterior cementitious surfaces.
- It is widely used on highway, fly-over, and concrete constructions on the sea, new and old buildings.

## APPLICATIONS INSTRUCTION

### Surface Preparation

To ensure satisfactory bonding, all surfaces must be free from oil, grease, sealers, dust, paint, form release and curing compounds.

Glossy and painted surfaces must be sanded, stripped, and cleaned of all contaminants. Concrete surfaces must be free of efflorescence and accepting of water penetration in order to form a good bond. Test by sprinkling water on the substrate; water beading indicates the presence of contaminants which could cause loss of adhesion. It is recommended to roughen smooth concrete surfaces prior to installation. The surface should be in a saturated surface dry condition.

### Mixing

Use only clean, dampened containers and clean, dry cement for the mix. Thoroughly pre-mix the sand/aggregate or gravel with the cement. Blend Aqualatex C10 into the mix, stirring slowly. See details below;

- **As Bonding Agent:** 0.5 Part Cement: 1 Part Aqualatex C10 by Weight
- **As Cement Modifier:** 1 liter of Aqualatex C10: 5Kg cement: 15Kg graded quartz sand
- **As Waterproofing Agent:** 2-5% of Aqualatex to be mixed with concrete by weight of cement

### Priming

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub Aqualatex C10 into the substrate. The repair mortar/topping should be applied whilst the primer is still tacky. However a satisfactory bond can be achieved up to 15 minutes after application at 30°C. In order to obtain a smooth consistency mortar, the cement and sand must be dry mixed and then poured into the liquid with the required amount of water in the prescribed mix proportions.

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## TECHNICAL PROPERTIES

Packaging	10kg, 20kg, 210kg
Appearance	White liquid
Shelf life	12 months from date of production
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.
PH	5.5 - 6.5
Solid content by weight	40%
Compressive strength	≥20MPa @ 3days          ASTM C109
Tensile strength	≥3.5MPa @ 7days          ASTM C190
Specific gravity	Approximately 1.12@25° C
Chloride content	Nil                                  (EN-934-2)
Application temp	Minimum 10° C Maximum 30° C
Substrate temp	+5 °C min. / +35 °C max

## COVERAGE

### As Cement Modifier

Approximately 6 - 8m<sup>2</sup>/ liter depending on substrate

### As Bonding Agent

Dosage: 1-1.5% by weight of cement

### As Waterproofing Agent

Approximately 3 - 4 m2/liter depending on substrateconditions



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## STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

## LIMITATIONS

Aqualatex C10 should not be used when the temperature is below 50C and falling. Do not exceed the maximum recommended water content and only use clean potable water. If any doubts arise concerning temperature or substrate conditions, consult your local Costar Building Product office.

## STANDARD COMPLIANCE

ASTM C1059

## HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

## ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

## LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

