

# AQUALATEX - C10

## Acrylic Additive for Cements Mortars and Toppings

### Description

Aqualatex C10 is a high quality viscous acrylic emulsion bonding agent used for concrete repairs, especially areas where good adhesion are 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

### Application 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.

### Instructions for Use

#### ■ 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

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## Physical Properties

### As Waterproofing Agent

2-5% of Aqualatex to be mixed with concrete by weight of cement

### Appearance: Milky White

PH: 8-9

## Technical Properties

<b>Composition and Materials</b>		100% acrylic polymers in a water dispersion
<b>Solids by Weight (%)</b>		28%
<b>Set Time</b>		4-6 hours with typical sand/cement mix
<b>Average Dry Time (70°F):</b>	<b>Normal Use</b>	24-48 hours
	<b>Heavy Traffic</b>	4 days
<b>Viscosity</b>		Slightly thicker than water
<b>Pot Life</b>		1-2 hours
<b>VOC Content</b>		< 350 g/l
<b>A.I.M. Category</b>		Primers and Undercoaters Maximum VOC 350 g/l
<b>Applicable Standards</b>		-ASTM C1059, Type II, Non-Redispersible
		-ASTM C190
		-ASTM 109
		-ASTM 348
		-ASTM 321

STRENGTH	WATER	AQUALATEX C10
<b>Tensile</b>	235 psi	645 psi
<b>Compressive</b>	2390 psi	5715 psi
<b>Flexural</b>	610 psi	1585 psi
<b>Impact</b>	6 psi	16 psi
<b>Abrasion Resistance</b>	23.80%	1.15%

\* % weight loss; lower value = higher resistance

## 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.

## Coverage

As Cement Modifier

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

As Bonding Agent

Approximately 3 - 4 m<sup>2</sup>/liter depending on substrate conditions

As Waterproofing Agent

Dosage: 2-5% by weight of cement



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### Limitation

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.

### Packaging

20 Litres Bucket and 200 Litres Drum

### Health & Safety

Aqualatex C10 should not be swallowed or allowed to come into contact with skin and eyes. Please use gloves and protective goggles. Avoid inhalation of dust. Wash skin contamination away with warm soapy water.

### Shelf Life

Aqualatex C10 has a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs.

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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