

Ultra High Performance EVA Co-Polymer Admixture/Bonding Agent/Adhesive

Description **Bondcon EVA 310** is a cement modifier, consisting of special higher grade of **Ethylene-Vinyl Acetate Co-Polymer (EVA)** emulsion, for enhancing the excellent adhesion strength of mortar, tile adhesive cement, plastering cement, cement / sand screed, renders repair mortar, grout repair mortar cement and the like. **Bondcon EVA 310** bonding agent, repair mortar, rendering, plastering & tile adhesive system can be used for affixing new tiles over old tiles.

- Features**
- **Superior water resistance.**
 - **Excellent alkaline resistance.**
 - **Increases adhesion strength significantly.**
 - **Good flexibility, which allows modified mortar to keep up with the moisture or thermal movement of the substrate.**
 - **Compatible with concrete or cementitious mortar.**
 - **Easy to apply to clean, sound substrate**
 - **Compatible with the thermal expansion properties of concrete.**
 - **Chloride free**
 - **Non-corrosive to reinforcing steel**
 - **Non-toxic, suitable for potable water**
 - **Non-shrink**

- Uses**
- **As water replacement additive in plastering cement, floor screed, tile adhesive cement, grouting cement, repair mortar, texture mortar, Portland cement and screed / render.**
 - **As primer for the application of new cementitious mortar over various types of substrates.**
 - **Fast repairs to horizontal or vertical concrete or mortar surfaces above and below ground level**
 - **Filing / repair mortar for voids, honeycombed areas, etc.**
 - **Repair of spalled concrete caused by reinforcement corrosion**
 - **Repairs with improved resistance to oils, sewage, chemicals, etc**

Technical Information

Solid Content:	40% [±01] Ethylene Vinyl Acetate Co-Polymer Emulsion 60% [±01] Water
Appearance:	Milky white liquid
pH:	5.1 (±0.70)
Density:	1.02g/cm³ (±0.01)
Viscosity:	>990 (±30)
Flammable Limit:	None
Odor:	Slightly Vinyl Acetate Odor
Solubility in Water:	Completely

Bondcon EVA 310 Modified Cement Primer/Bonding Agent/Mortar/Grout & Concrete

	020 kg of Bondcon EVA 310 020 kg of Water 040 kg of Cement	020 kg of Bondcon EVA 310 020 kg of Water 080 kg of Cement 160 kg of Fine Sand	020 kg of Bondcon EVA 310 040 kg of Water 100 kg of Cement 200 kg of Fine Sand 300 kg of Agg 10mmø		
	Thickness Require 0.50-12mm	Thickness Require >12-75mm	Thickness Require 12-125mm		
Properties Specification (28 days, at 25°C)	Bonding Agent or Primer or Filling Gap		Mortar	Concrete	
Flexural Strength	7.10 N/mm ²	16.80 N/mm ²	16.50 N/mm ²		
Compressive Strength	17.50 N/mm ²	58.00 N/mm ²	62.00 N/mm ²		
Adhesion Strength	1.90 N/mm ²	1.75 N/mm ²	1.65 N/mm ²		

	010 kg of Bondcon EVA 310 020 kg of Water 100 kg of Cement 100 kg of Sand	020 kg of Bondcon EVA 310 012 kg of Water 080 kg of Cement 040 kg of Fine Sand	020 kg of Bondcon EVA 310 040 kg of Water 100 kg of Cement 300 kg of Fine Sand		
	Thickness Require 5-12mm	Thickness Require >12-75mm	Thickness Require 10-50mm		
Properties Specification (28 days, at 25°C)	Tile Adhesive		Grout	Plastering or Rendering	
Flexural Strength	12.10 N/mm ²	17.00 N/mm ²	16.50 N/mm ²		
Compressive Strength	22.50 N/mm ²	61.00 N/mm ²	62.00 N/mm ²		
Adhesion Strength	1.80 N/mm ²	1.75 N/mm ²	1.65 N/mm ²		

Bondcon EVA 310 as Primer and Bonding Agent:-

Adhesion Strength on Mortar: >1.25 N/mm²

Shear Bond Strength: >3.90 N/mm²

Setting: 24 hours

Primer	Improved of old/new substrate bonding	Brush or roller or spraying application concrete reinforced column, beam & slab
Bonding Agent	Improved of old/new filling gap, crack gap, for bonding adhesion	Brush or roller or spraying application concrete reinforced column, beam & slab
Mortar	Hand patching at honey-comb, concrete repair & other reinforced structures repair, for high strength & bonding adhesion	Application concrete reinforced column, beam & slab
Grout	Pumps/Pourable or hand patch at honey-comb, concrete repair & other reinforced structures repair, for high strength & bonding adhesion	Application concrete reinforced column, beam & slab
Plastering	Wall honey-comb, concrete repair & other reinforced structures repair, for high strength & bonding adhesion	Application concrete reinforced column, beam & slab
Tile Adhesive	Improved of high peel, tensile, shear & bonding adhesion	Wall Tiling, Marble, Granite & Other Stones Rock

Method of Application Surface Preparation

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated but with no surface water. This condition is referred to as saturated surface dry and care should be taken to remove any cement slurry or dust produced during surface preparation. The use of a "fan" shaped water jet is ideal. Steel reinforcements should have all traces of rust removed.

Priming Concrete Reinforced

Prior to application of **Bondcon EVA 310**, should be applied as a bonding bridge. Always work "wet on wet".

Mixing

Bondcon EVA 310 should be mechanically mixed in a clean drum using a drill and paddle or concrete mixer. Add the **Cement, Sand, Water & Aggregates** slowly while mixing. A minimum mixing time of 5-10 minutes is recommended to thoroughly blend the components with a maximum speed of 500 rpm to minimize air entrainment. Please refer to Mix Proportion Design Uses.

Packing: 20 kg pail

Shelf Life 12 months in unopened container, store under cool and dry place.

**LaMaCo System Sdn Bhd**

407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah, Malaysia
Tel : +60-4-771 1111 Fax : +60-4-772 4444
Http : www.lamaco.com
Email : info@lamaco.com

Important 1: While the information and data sheet contained in this promotional literature are presented in good faith and believed to be reliable, they do not constitute a part of our terms and conditions of sales unless specifically incorporated in our Order acknowledgement. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data sheet are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data sheet or products can be used without infringing patent of third parties.

Important 2: **LaMaCo Malaysia** products are not guaranteed against defective materials and manufacture & are sold subject to its standard Terms & Conditions of sale, copies of which may be obtained on request. Whilst **LaMaCo Malaysia** endeavors to ensure that any advice, recommendation, specification or information 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 any advice, specification, recommendation or information given by it.

Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LaMaCo Malaysia** on request and sent with each delivery.