

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

**Description**                      **Bondcon EVA 179** is a cement modifier, consisting of **Ethylene-Vinyl Acetate Co-Polymer (EVA)** emulsion, for enhancing the excellent adhesion strength of mortar, tile adhesive cement, plastering cement, cement / sand screed, render repair mortar, grout repair mortar cement and the like. **Bondcon EVA 179** 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

<b>Solid Content:</b>	<b>43% [±01] Ethylene Vinyl Acetate Co-Polymer Emulsion 57% [±01] Water</b>
<b>Appearance:</b>	<b>Milky white liquid</b>
<b>pH:</b>	<b>5.2 (±0.80)</b>
<b>Density:</b>	<b>1.02g/cm<sup>3</sup> (±0.01)</b>
<b>Viscosity:</b>	<b>&gt;1020 (±50)</b>
<b>Flammable Limit:</b>	<b>None</b>
<b>Odor:</b>	<b>Slightly Vinyl Acetate Odor</b>
<b>Solubility in Water:</b>	<b>Completely</b>

**Bondcon EVA 179 Modified Cement Primer/Bonding Agent/Mortar/Grout & Concrete**

	020 kg of Bondcon EVA 179 020 kg of Water 040 kg of Cement	020 kg of Bondcon EVA 179 020 kg of Water 080 kg of Cement 160 kg of Fine Sand	020 kg of Bondcon EVA 179 040 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		
<b>Properties Specification (28 days, at 25°C)</b>	<b>Bonding Agent or Primer or Filling Gap</b>		<b>Mortar</b>	<b>Concrete</b>	
<b>Flexural Strength</b>	<b>7.10</b> N/mm <sup>2</sup>	<b>16.80</b> N/mm <sup>2</sup>	<b>16.50</b> N/mm <sup>2</sup>		
<b>Compressive Strength</b>	<b>17.50</b> N/mm <sup>2</sup>	<b>58.00</b> N/mm <sup>2</sup>	<b>62.00</b> N/mm <sup>2</sup>		
<b>Adhesion Strength</b>	<b>1.90</b> N/mm <sup>2</sup>	<b>1.75</b> N/mm <sup>2</sup>	<b>1.65</b> N/mm <sup>2</sup>		

	010 kg of Bondcon EVA 179 020 kg of Water 100 kg of Cement 100 kg of Sand	020 kg of Bondcon EVA 179 012 kg of Water 080 kg of Cement 040 kg of Fine Sand	020 kg of Bondcon EVA 179 040 kg of Water 100 kg of Cement 300 kg of Fine Sand		
	Thickness Require 5-12mm	Thickness Require >12-75mm	Thickness Require 10-50mm		
<b>Properties Specification (28 days, at 25°C)</b>	<b>Tile Adhesive</b>		<b>Grout</b>	<b>Plastering or Rendering</b>	
<b>Flexural Strength</b>	<b>12.10</b> N/mm <sup>2</sup>	<b>17.00</b> N/mm <sup>2</sup>	<b>16.50</b> N/mm <sup>2</sup>		
<b>Compressive Strength</b>	<b>22.50</b> N/mm <sup>2</sup>	<b>61.00</b> N/mm <sup>2</sup>	<b>62.00</b> N/mm <sup>2</sup>		
<b>Adhesion Strength</b>	<b>1.80</b> N/mm <sup>2</sup>	<b>1.75</b> N/mm <sup>2</sup>	<b>1.65</b> N/mm <sup>2</sup>		

**Bondcon EVA 179 as Primer and Bonding Agent:-**

**Adhesion Strength on Mortar: >1.20 N/mm<sup>2</sup>**

**Shear Bond Strength: >3.75 N/mm<sup>2</sup>**

**Setting: 24 hours**

<b>Primer</b>	Improved of old/new substrate bonding	Brush or roller or spraying application concrete reinforced column, beam & slab
<b>Bonding Agent</b>	Improved of old/new filling gap, crack gap, for bonding adhesion	Brush or roller or spraying application concrete reinforced column, beam & slab
<b>Mortar</b>	Hand patching at honey-comb, concrete repair & other reinforced structures repair, for high strength & bonding adhesion	Application concrete reinforced column, beam & slab
<b>Grout</b>	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
<b>Plastering</b>	Wall honey-comb, concrete repair & other reinforced structures repair, for high strength & bonding adhesion	Application concrete reinforced column, beam & slab
<b>Tile Adhesive</b>	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 179**, should be applied as a bonding bridge. Always work "wet on wet".

**Mixing**

**Bondcon EVA 179** 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.

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