

# Bondcon EVA 103

Ethylene-Vinyl Acetate Copolymer Data Sheet

## 49% Solid Contain & High Performance EVA Co-Polymer Admixture/Bonding Agent/Adhesive/Repairing Mortar/Plastering/Rendering.

**Description** **Bondcon EVA 103** 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 103** 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-shrinkages

- 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 Contain:</b>	<b>49% [<math>\pm 01</math>] Ethylene Vinyl Acetate Co-Polymer Emulsion 51% [<math>\pm 01</math>] Water</b>
<b>Appearance:</b>	<b>Milky white liquid</b>
<b>pH:</b>	<b>5.2 (<math>\pm 0.80</math>)</b>
<b>Density:</b>	<b>1.04g/cm<sup>3</sup> (<math>\pm 0.01</math>)</b>
<b>Viscosity:</b>	<b>&gt;2220 (<math>\pm 100</math>)</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>

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### Modified Cement Primer or Bonding Agent or Repair Mortar or Grout or Plastering/Rendering & Concrete

#### Properties Specification (28 days, at 25°C)

Type of Application	Bonding Agent or Primer or Filling Gap		Mortar		Concrete	
<b>System of Mixing Ratio</b>	020 kg of Bondcon EVA 103 020 kg of Water 040 kg of Cement		020 kg of Bondcon EVA 103 020 kg of Water 080 kg of Cement 160 kg of Fine Sand 000.5 kg of 6mm Nylon Fiber		020 kg of Bondcon EVA 103 040 kg of Water 100 kg of Cement 200 kg of Fine Sand 300 kg of Agg 10mmø 001 kg of 19mm Nylon Fiber	
<b>Thickness Require</b>	0.50-12mm		>12-75mm		12-125mm	
<b>Flexural Strength</b>	<b>8.50</b> [±01]	N/mm <sup>2</sup>	<b>18.00</b> [±01]	N/mm <sup>2</sup>	<b>17.85</b>	N/mm <sup>2</sup>
<b>Compressive Strength</b>	<b>19.10</b> [±01]	N/mm <sup>2</sup>	<b>59.50</b> [±01]	N/mm <sup>2</sup>	<b>64.00</b>	N/mm <sup>2</sup>
<b>Adhesion Strength</b>	<b>1.90</b> [±01]	N/mm <sup>2</sup>	<b>1.75</b> [±01]	N/mm <sup>2</sup>	<b>1.65</b>	N/mm <sup>2</sup>

#### Properties Specification (28 days, at 25°C)

Type of Application	Tile Adhesive		Grout		Plastering or Rendering	
<b>System of Mixing Ratio</b>	010 kg of Bondcon EVA 103 020 kg of Water 100 kg of Cement 100 kg of Sand		020 kg of Bondcon EVA 103 012 kg of Water 080 kg of Cement 040 kg of Fine Sand 000.4kg of 6mm Nylon Fiber		020 kg of Bondcon EVA 179 040 kg of Water 100 kg of Cement 300 kg of Fine Sand	
<b>Thickness Require</b>	Thickness Require 5-12mm		Thickness Require >12-75mm		Thickness Require 10-50mm	
<b>Flexural Strength</b>	<b>14.20</b> [±01]	N/mm <sup>2</sup>	<b>17.00</b> [±01]	N/mm <sup>2</sup>	<b>16.50</b>	N/mm <sup>2</sup>
<b>Compressive Strength</b>	<b>24.50</b> [±01]	N/mm <sup>2</sup>	<b>63.00</b> [±01]	N/mm <sup>2</sup>	<b>59.50</b>	N/mm <sup>2</sup>
<b>Adhesion Strength</b>	<b>1.80</b> [±01]	N/mm <sup>2</sup>	<b>1.75</b> [±01]	N/mm <sup>2</sup>	<b>1.65</b>	N/mm <sup>2</sup>

## Bondcon EVA 103 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 103**, should be applied as a bonding bridge. Always work "wet on wet".

### Mixing

**Bondcon EVA 103** 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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