

## RonaBond Concrete Cover Elastic

Coating to increase equivalent concrete cover by 150mm @ 2mm thickness



### FEATURES

- protective coating for concrete
- Elastic, covers fine cracks
- 2mm application increases Equivalent Concrete Cover by 150mm
- waterproof
- easy to apply

### Description

RonaBond Concrete Cover Elastic is a coating designed to improve equivalent concrete cover to reinforcement. A 2mm layer provides 150mm equivalent concrete cover providing corrosion protection to steel reinforcement thus extending the life of the concrete.

RonaBond Concrete Cover Elastic is supplied as a pre-packed material comprising liquid and powder. It is mixed to form a slurry which is applied by brush or roller at a thickness of approximately 1-2mm per coat on a vertical surface. The cured coating can be left as the finished surface or overcoated with a pigmented anti-carbonation coating such as RonaBond Crack Bridging Anti-Carbonation Coating WB or RonaBond Anti-Carbonation Coating WB.

**Please note that RonaBond Concrete Cover Elastic is for corrosion protection and will not improve the fire rating of concrete with insufficient cover.**

### Physical Properties

Coverage (approximately)	To apply a 2mm coating over 1m <sup>2</sup> requires approximately 3.56kg of RonaBond Concrete Cover Elastic
Cured colour	Concrete Grey
Adhesion	2.2 N/mm <sup>2</sup> (Dry) 0.97 N/mm <sup>2</sup> (Wet)
No of coats	typically two coats.
Elongation to break (ambient) (%) Dry	38.14
Elongation to break (ambient) (%) Wet	28.43
Fresh wet density kg/m <sup>3</sup>	1779
Equivalent Air thickness S <sub>D</sub> (m)	59.87
Carbon Dioxide Diffusion Coefficient DCO <sub>2</sub> (cm <sup>2</sup> /s <sup>-1</sup> )	5.354 x 10 <sup>-6</sup>
Equivalent Concrete Thickness S <sub>c</sub> (mm)*	50mm @ 2mm thickness

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### Physical Properties (continued)

Workable life	60 minutes @ 20°C
Touch dry	30 minutes @ 20°C
Application temperature range	5-30°C

### Instructions for Use

#### Preparation

The substrate on which RonaBond Concrete Cover Elastic is being placed must be structurally sound and stable. Surfaces should ideally be prepared by water/grit blasting or similar means to remove previous coatings and any grease, oil, dirt and deleterious material. Damp the surface with clean water and remove excess.

#### Mixing

Mix RonaBond Concrete Cover Elastic with a slow speed ( $\leq 450$  RPM) drill and MR 2 or 3 helical paddle.

Dry mix the powder to ensure the fine and coarse particles are thoroughly blended.

Add all of the supplied liquid to a mixing vessel and gradually add the powder component; continue mixing until the components are fully blended; reducing the gauging liquid content will reduce the effectiveness of the coating. RonaBond Concrete Cover Elastic is supplied pre-packed and no on site additions are required.

#### Application

As soon as the material is mixed, apply by brush or roller to the damp surface ensuring total coverage and a uniform surface appearance.

Apply the first coat and allow to dry for approximately 12-24 hours at 20°C.

Mix and apply successive coats at 90° to the previous coats and allow each to dry for approximately 12-24 hours at 20°C.

### Packaging and Coverage

RonaBond Concrete Cover Elastic is supplied as a two component material in 19kg packs. One pack of material is sufficient to apply one coat over an area of approximately 10.68m<sup>2</sup> at a thickness of 1mm, or 5.34m<sup>2</sup> at a thickness of 2mm.

### Health and Safety

Refer to Safety Data Sheet.


### Site Attendance

When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.



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 <b>0836</b>
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<b>BS EN 1504-2</b>  <b>Concrete Repair Surface Protection System</b>
<b>Adhesive Bond Dry (N/mm<sup>2</sup>) Dry 2.20</b> <b>Adhesive Bond Dry (N/mm<sup>2</sup>) Wet 0.97</b> <b>Water Vapour Permeability (g/(m<sup>2</sup>*d) 31.47</b> <b>Diffusion-equivalent air thickness layer S<sub>D</sub> (m) 0.68</b> <b>Diffusion-equivalent air thickness layer Class II</b> <b>Water-Vapour Resistance Factor μ 242</b> <b>Water-Vapour resistivity (MNs/gm) 1212</b> <b>Water-Vapour diffusion resistance (MNs/g) 2.42</b> <b>Carbon Dioxide Diffusion Coefficient DCO<sub>2</sub> (cm<sup>2</sup>s<sup>-1</sup>) 5.354 x 10<sup>-6</sup></b> <b>Diffusion Equivalent Air thickness S<sub>D</sub>(m) 59.87</b> <b>Permeability to CO<sub>2</sub> (Equivalent Concrete Thickness S<sub>c</sub> (mm))</b> <b>150 @ 2mm</b> <b>Capillary Absorption and permeability to water (kg/(m<sup>2</sup>*x(24)<sup>0.5</sup>))</b> <b>&lt;0.1</b> <b>Dangerous Substances Safety Data Sheet</b> <b>Reaction to Fire Euroclass B S1 do</b>

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