

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 ² requires approximately 3.56kg of RonaBond Concrete Cover Elastic Concrete Grey
Cured colour	Concrete Grey
Adhesion	2.2 N/mm ² (Dry) 0.97 N/mm ² (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 ³	1779
Equivalent Air thickness S _D (m)	59.87
Carbon Dioxide Diffusion Coefficient DCO ₂ (cm ² /s ⁻¹)	5.354 x 10 ⁻⁶
Equivalent Concrete Thickness S _c (mm)*	150mm @ 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 (≤ 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 10.68m² at a thickness of 1mm, or 5.34m² 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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Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13 0836-CPR-13/F045
BS EN 1504-2 Concrete Repair Surface Protection System
Adhesive Bond Dry (N/mm²) 2.20 Adhesive Bond Wet (N/mm²) 0.97 Water Vapour Permeability (g/(m²*d) 31.47 Diffusion-equivalent air thickness layer S_D (m) 0.68 Diffusion-equivalent air thickness layer Class II Water-Vapour Resistance Factor μ 242 Water-Vapour resistivity (MNs/gm) 1212 Water-Vapour diffusion resistance (MNs/g) 2.42 Carbon Dioxide Diffusion Coefficient DCO₂ (cm²s⁻¹) 5.354 x 10⁻⁶ Diffusion Equivalent Air thickness S_D (m) 59.87 Permeability to CO₂ (Equivalent Concrete Thickness S_c (mm)) 150 @ 2mm Capillary Absorption and permeability to water (kg/(m²*x(24)^{0.5})) <0.1 Dangerous Substances Safety Data Sheet Reaction to Fire Euroclass B S1 do

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.