

**Technical Data Sheet**

Ronabond Concrete Cover 150 (formerly Ronabond Cover Plus 150)

Thin protective barrier coating to increase cover to steel reinforcement by 150mm

FEATURES

- ✓ protective coating for concrete
- ✓ increases Equivalent Concrete Thickness by 150mm
- ✓ waterproof
- ✓ easy to apply

SPECIFICATION CLAUSE

The protective coating shall be Ronabond Concrete Cover 150 by Ronacrete Ltd, telephone +44 (0) 1279 638700. The coating shall be applied in two coats to achieve a dry film thickness of not less than 4mm. The coating shall have an Equivalent Concrete Cover value of 150mm as tested by Taywood Engineering. Material is to be applied in accordance with manufacturers instructions.

Description

Ronabond Concrete Cover 150 is an enhancement barrier and coating system for concrete. A 4mm layer creates an Equivalent Concrete Thickness of 150mm to protect reinforcing steel and extend the life of reinforced concrete.

Ronabond Concrete Cover 150 is supplied as a prebagged material comprising liquid and powder. It is mixed to form a slurry which is applied in four coats. The cured coating can be left as the finished surface or overcoated with a further protective and decorative layer of anti-carbonation coating such as Ronabond Joltec or Ronabond Zolpacryl.

Independent laboratory tests demonstrate that Ronabond Concrete Cover 150 forms a protective barrier coating with an Equivalent Concrete Thickness of 150mm.

Ronabond Concrete Cover 150 is suitable for remedying the following problems:

- concrete suffering from insufficient cover to steel as a result of poor construction, incorrectly placed steel or shuttering
- design errors
- short, medium or long term erosion and degradation

Failure to treat concrete can result in premature cracking and spalling and necessitate full scale concrete repair. Appropriate and timely application of Ronabond Concrete Cover 150 will protect concrete and steel.

Preparation

The substrate on which Ronabond Concrete Cover 150 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. Remove excess.

Mixing

Mix Ronabond Concrete Cover 150 in a suitable mixer, e.g. slow speed drill and paddle mixer. The use of a forced action mixer (eg. Creteangle or drill and paddle) will provide optimum performance; free fall mixers cause the mortar to ball up with a resultant reduction in performance and must not be used.

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

Slowly add all of the supplied liquid and continue mixing to achieve a

suitable consistency for roller or brush application. Do not add any any other component or material, even water. Ronabond Concrete Cover 150 is supplied prepacked and no on site additions are required.

Application

As soon as the material is mixed apply by 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.

Application Requirement

It is essential that successive coats are applied at 90° to the previous coats to eliminate the risk of pinholes.

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.

Packaging

Ronabond Concrete Cover 150 is supplied as a two pack material in 19kg packs.

Coverage

One pack of material is sufficient to apply one coat over an area of approximately 8.7m² at a thickness of 1mm.

Estimating Guide

To apply 2 coats of Ronabond Concrete Cover 150 requires 8.7kg per 1m² (approx.).

Health and Safety

Ronabond Concrete Cover 150 is non-hazardous although protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion.

In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

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Technical Data

Product	Ronabond Concrete Cover 150
Packaging	19kg pack; 2 component comprising liquid and powder
Coverage (approximately)	To apply a 4mm coating over 1m ² requires approximately 8.7kg of Ronabond Concrete Cover 150
Cured colour	Dark Grey
Waterproof ISAT Value (ml/m ² /sec)	0.00
Adhesion	Monolithic
Minimum Dry Film Thickness required	3.9mm achieved in 2 coats
No of coats	2
Oxygen Diffusion DO ₂ (cm ² /s)*	7.39 x 10 ⁻⁵
Carbon Dioxide Diffusion Coefficient DCO ₂ (cm ² /s)*	2.21 x 10 ⁻⁵
Equivalent Concrete Thickness Sc (cm)*	15
* Tests by Taywood Engineering, Test Certificate No. 5801	

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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.



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