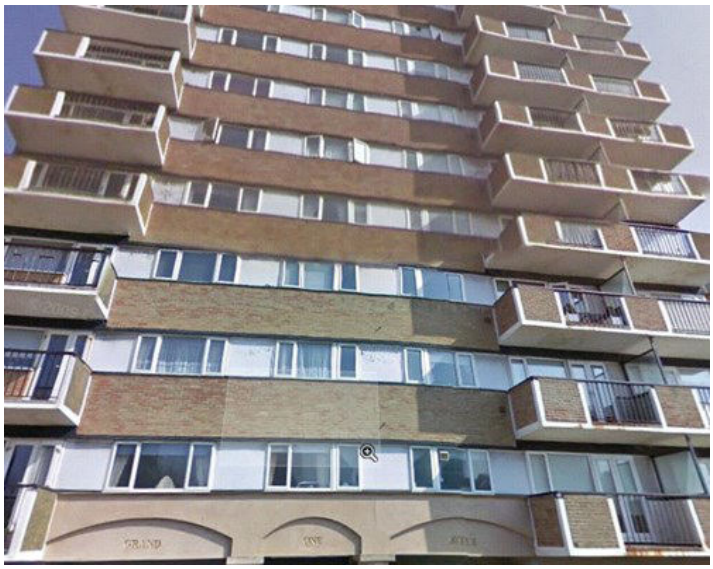
RonaBond Anti Carbonation Coating WB

Decorative, water-based, anti-carbonation coating



FEATURES

- **excellent CO_2 resistance**
- **high resistance to UV degradation**
- **excellent vapour permeability**
- **permanent flexibility**
- **water based—environmentally friendly**
- **large standard colour range**
- **smooth finish—low dirt retention**
- **suitable for facades and soffits**

Description

RonaBond Anti-Carbonation Coating WB is a smooth creamy water based acrylic coating.

It is used as a protective and decorative coating for new, maintenance and refurbishment work and can be applied to most traditional building surfaces including concrete, repair mortar, render and masonry after preparation.

It provides a weather resistant surface which resists the ingress of CO_2 and allows the substrate to "breathe", When applying RonaBond Crack Bridging Anti-Carbonation Coating WB to facades, RonaBond Anti-Carbonation Coating WB should be used for soffits and below DPC level, to reduce the risk of blistering associated with elastomeric coatings applied to substrates containing high levels of moisture. The semi-thick nature of RonaBond Anti-Carbonation Coating WB provides high opacity.

Test Data

Carbon Dioxide Diffusion Resistance

R (equivalent air layer thickness)*	209m
S_c (equivalent thickness of concrete)	0.52m
DFT (dry film thickness) of sample	162 microns

Moisture Vapour Transmission

Vapour permeability	110g/m^2/day
S_D (equivalent air layer thickness)**	1.1m

*Klopfer criterion for effective anti-carbonation coating is R greater than 50 metres
**The criterion for an acceptable anti-carbonation coating is for S_D to be equal to, or less than 4m

Tests by Taywood Engineering Ltd
Test Certificate No. 2867

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Physical Properties

Liquid state	semi-viscous coating
Description	100% acrylic dispersion in water. Contains a protective fungicide and corrosion inhibitor
Dry film appearance	Smooth satin finish
Viscosity	112 ± 5KU
Solids by weight	64 ± 2% (white)
Solids by volume	47 ± 2%
Density	1.48 ± 0.05
Flash point	none

Drying times

Surface dry	30 minutes
Recoatable	2 hours

Coverage

on smooth substrate	8-10m^2 per litre per coat
Number of coats	2
Method of application	RonaBond roller or airless spray

It is important to note that coverage rates are based on flat, non-porous surfaces, make no allowance for wastage and are the minimum that should be allowed for. Additional material will be required on surfaces which are either uneven or porous.

Drying times are based on 20°C and 65% RH. Drying will vary at different temperatures and RH.

Colours

RonaBond Anti-Carbonation Coating WB is pigmented in the UK and more than 750 shades are readily available from UK stock. See colour chart.

Limitations

Do not apply below 5°C or above 35°C. Do not apply where live crack accommodation is required; use RonaBond Crack Bridging Anti-Carbonation Coating.

RonaBond Anti-Carbonation Coating WB can be applied to previously painted surfaces provided paint is sound and well bonded. Site trials are advised including cross hatch and sponge testing.

Instructions for Use

Surface Levelling Prior To Application

The application of RonaBond Anti-Carbonation Coating WB (and other paints/ coatings) will highlight surface imperfections and undulations. Surface levelling and smoothing with RonaBond Easy Skim FC should be considered.

Application

1. Prepare substrate by suitable means (e.g. grit blasting, high pressure water jetting, scraping or chemical removal) to provide a sound, stable and clean surface.

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Instructions for Use

2. Treat surfaces with RonaBond Fungicidal Treatment as necessary to eliminate surface contamination, moss, algae, fungal growth, etc.
3. Repair defective surfaces with a suitable Ronacrete repair mortar
4. Apply the first coat of undiluted RonaBond Anti-Carbonation Coating WB at 8 -10m² per litre, coverage may be reduced on textured substrates. Highly absorbent substrates may require dilution of the first coat with up to 10% clean water.
5. Apply using the RonaBond long haired woollen roller or airless spray. Allow to dry.
6. Apply the final coat of undiluted RonaBond Anti-Carbonation Coating WB at 8 -10m² per litre and allow to dry, coverage may be reduced on textured substrates.

Other Surfaces

RonaBond Anti-Carbonation Coating WB can be used on woodwork and steel when the appropriate primers are used. Refer to the Ronacrete Technical Department.

Packaging

RonaBond Anti-Carbonation Coating WB is supplied in 16 litre tins.

Shelf Life and Storage

Store in frost free conditions away from direct heat and sunlight. Shelf life one year in unopened containers.

Health and Safety

Non-toxic and non-hazardous; see health and safety data.

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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CE

0836

Ronacrete Ltd,
Flex Meadow, Harlow
Essex, CM19 5TD, UK

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0836-CPR-13/F045
BS EN 1504-2
Surface Protection Systems for Concrete

Coating (1.3)

Permeability to Carbon dioxide	**CO_2 S_D > 50m**
Dangerous Substances:	**Complies with section 5.3**

Ronacrete
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