

# Ronabond Joltec Smooth

Elastomeric, waterproof, anti-carbonation coating - satin finish

## FEATURES

- ✓ Anti-carbonation coating; excellent CO<sub>2</sub> diffusion resistance
- ✓ Satin velvet finish
- ✓ Elastomeric, waterproof, highly flexible
- ✓ Pigmented with excellent opacity; >120 colours
- ✓ Accommodates live crack movement up to 2mm
- ✓ Suitable for walls and vertical surfaces
- ✓ 10 year insurance backed warranty available

## SPECIFICATION CLAUSES

### 1. Anti-carbonation coating for external vertical walls to accommodate 0.2mm live crack movement

The anti-carbonation coating shall be Ronabond Joltec 2 Smooth by Ronacrete Ltd, telephone +44 (0) 1279 638700. The coating shall be applied on to a suitably primed surface. All materials to be applied in accordance with manufacturers instructions.

### 2. Anti-carbonation coating for external vertical walls to accommodate 0.5mm live crack movement

The anti-carbonation coating shall be Ronabond Joltec 5 Smooth by Ronacrete Ltd, telephone +44 (0) 1279 638700. The coating shall be applied on to a suitably primed surface. All materials to be applied in accordance with manufacturers instructions.

### 3. Anti-carbonation coating for external vertical walls to accommodate 1.0mm live crack movement

The anti-carbonation coating shall be Ronabond Joltec 10 Smooth by Ronacrete Ltd, telephone +44 (0) 1279 638700. The coating shall be applied on to a suitably primed surface. All materials to be applied in accordance with manufacturers instructions.

### 4. Anti-carbonation coating for external vertical walls to accommodate 2.0mm live crack movement

The anti-carbonation coating shall be Ronabond Joltec 20 Smooth by Ronacrete Ltd, telephone +44 (0) 1279 638700. The coating shall be applied on to a suitably primed surface. All materials to be applied in accordance with manufacturers instructions.

## SUMMARY APPLICATION PROCEDURE

### Ronabond Joltec 2 Smooth

1. prepare surfaces
2. apply primer
3. apply one coat of Ronabond Joltec Smooth

### Ronabond Joltec 5 Smooth

1. prepare surfaces
2. apply primer
3. apply 2 coats of Ronabond Joltec Smooth

### Ronabond Joltec 10 Smooth

1. prepare surfaces
2. apply primer
3. apply one coat of Ronabond Joltec Fibrous
4. apply one coat of Ronabond Joltec Smooth

### Ronabond Joltec 20 Smooth

1. prepare surfaces
2. apply primer
3. apply two coats of Ronabond Joltec Fibrous
4. apply one coat of Ronabond Joltec Smooth

## Description

Ronabond Joltec Smooth is a façade coating formulated on an acrylic resin with a water base. It is used as a protective and decorative coating for new and refurbishment work and can be applied to most traditional building surfaces including concrete, repair mortar, render and masonry after suitable preparation.

Ronabond Joltec Smooth is highly elastic, waterproof and an excellent anti-carbonation coating. It protects surfaces from the ingress of water and slows the passage of water vapour. It is an effective barrier against carbon dioxide gas which can permeate concrete, in turn causing corrosion of steel and spalling of concrete.

## Colours

More than 120 shades are readily available from UK stock. See colour chart.

## Limitations

Do not apply below 5°C or above 35°C. Do not apply on soffits or on surfaces through which water must be allowed to pass or escape; in these locations use Ronabond Zolpacryl. Ronabond Joltec can be applied on to previously painted surfaces provided paint is sound, well bonded and tolerant of Ronabond Joltec. Site trials are advised including cross hatch and sponge testing.

## Preparation

Prepare the substrate by suitable means (e.g. blasting, high pressure water/grit, scraping, chemical removal) to provide a sound and stable and clean surface; surfaces may be damp but not wet with running water or condensation. Treat surfaces with Ronacrete Fongimousse Plus as necessary to eliminate surface contamination, moss, algae, fungal growth, etc

## Surface Levelling and Repair Prior To Application

The application of Ronabond Joltec (and other paints/coatings) will highlight and exaggerate surface imperfections and undulations. Surface levelling and smoothing with Ronabond FC or Ronafix Slurry Coat should be considered.

## Priming

Apply the most appropriate primer and allow to dry (see technical data for Ronabond Zolpafix, Ronabond Zolpafix Granited, Ronabond Zolpaprime Granited, Ronabond Zolpafix Stoneware Primer).

## Cracks

Fill fine cracks with Ronabond Stop Crack using a palette knife as appropriate.

## Application

Apply one or more coats of Ronabond Joltec Smooth (and other grades of Ronabond Joltec, see Table 1) to achieve the specified film thickness and / or live crack accommodation performance requirement. Apply by Joltec roller or airless spray. Allow to dry. Apply successive coats as required to achieve the required dry film thickness and required degree of live crack accommodation.

# Ronabond Joltec Smooth

Ronabond Joltec Smooth can be applied using airless spray. The nozzle size shall be 621-625. Included within the spray should be a 60 mesh filter. Dilution of the coating can be made with water between 2-10%. Coverage on to smooth surfaces will be 3.5m<sup>2</sup> per litre per coat.

### 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.

### Insurance Underwriting

A 10 year insurance underwriting is available on Ronabond Joltec systems offering the contractor and client financial protection against product or application failure. Conditions apply; survey, inspection and approved contractor status required. Refer to the Ronacrete Technical Department.

### Other surfaces

Ronabond Joltec can be used on woodwork and steel when the appropriate primers are used. Refer to the Ronacrete Technical Department.

### Packaging, Storage/Health & Safety

Supplied in 16 litre tins. Store in frost free conditions away from direct heat and sunlight. Shelf life one year in unopened containers. Non-toxic and non-hazardous; see health and safety data.

### Other protective coating systems

Ronabond Zolpacryl (non-elastomeric), Ronabond Joltec Transparent (clear elastomeric), Ronabond Anti-Graffiti Coatings, Styzol Thixo for low temperature working.

**Table 1: Ronabond Joltec Smooth—Systems**

Live crack accommodation	System	Coats
0.2mm	Ronabond Joltec 2	1 coat primer (see note 1 below) 1 coat Ronabond Joltec Smooth at 3.5m <sup>2</sup> per litre
0.5mm	Ronabond Joltec 5	1 coat primer 2 coats Ronabond Joltec Smooth at 5m <sup>2</sup> per litre per coat
1.0mm	Ronabond Joltec 10	1 coat primer 1 coat Ronabond Joltec Fibrous at 2.5m <sup>2</sup> per litre 1 coat Ronabond Joltec Smooth at 3.5m <sup>2</sup> per litre
2.0mm	Ronabond Joltec 20	1 coat primer 2 coats Ronabond Joltec Fibrous at 2.5m <sup>2</sup> per litre per coat 1 coat Ronabond Joltec Smooth at 3.5m <sup>2</sup> per litre

note 1: When using the Ronabond Joltec 2 system, the primer should be either Ronabond Zolpafix Granited or Ronabond Zolpaprime Granited tinted to the same colour as the top coat of Ronabond Joltec Smooth.

**Table 2: Test Data**

**Carbon Dioxide Diffusion Resistance (Ronabond Joltec 10)**

R (equivalent air layer thickness) - see note 1	236m
S <sub>C</sub> (equivalent thickness of concrete)	0.58m
DFT (dry film thickness) of sample	574 microns

**Test Data: Moisture Vapour Transmission**

S <sub>D</sub> (equivalent air layer thickness) - see note 2	2.0m
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note 1 Klopfer criterion for effective anti-carbonation coating is R greater than 50 metres

note 2 The criterion for an acceptable anti-carbonation coating is for S<sub>D</sub> to be equal to, or less than, 4m

Tests by Taywood Engineering Ltd, Test Certificate No. 2869

**Table 3: Physical Properties**

Liquid state	semi-thick paint
Description	acrylic dispersion in water. Contains a protective fungicide and corrosion inhibitor
Dry film appearance	satin finish
Viscosity	140 ± 5KU
Dry film solids by weight	72 ± 2% (white)
Density	1.45 ± 0.05
Flash point	none
Drying times	surface dry 4 hours recoatable 24 hours
Coverage	3.5 or 5m <sup>2</sup> per litre per coat depending on specification
Number of coats	1 or 2 depending on specification
Method of application	Joltec roller, 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.