

## Corroseal RB

### Rubberised bitumen mastic sealant

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#### Product Features

**Corroseal RB** is a cold applied, single component, rubberised bitumen mastic sealant designed for sealing terminations in conjunction with **Corroprufe** bituminous waterproofing membranes, it is also ideal as a sealant in low movement & construction joints from 5 to 50 mm width in asphalt, concrete, masonry, metal and many other substrates.

**Corroseal RB** cures to form a black, flexible seal, accommodating continuous cyclic movement of up to 10% of the joint width as a total movement, and is supplied ready for use without the need for on site mixing, giving consistent properties.

#### Typical Uses

**Corroseal RB** is typically used for sealing non-trafficked joints subject to low movement, in building & civil engineering structures such as pre cast concrete elements, dams, reservoirs, basements and bridges, but also for sealing terminations in conjunction with **Corroprufe** bituminous waterproofing membranes such as around pipe entries, parapets and corners details.

#### Technical Data

Properties	Test Standards	Typical Values
Colour		: black
Density @ 25°C	ASTM D 70	: 1 - 1.2 kg/litre
Cone penetration @ 25°C	ASTM D 217	: 225 - 350 (depending on grade)
Flow @ 60°C	ASTM D 1851	: 5 mm maximum
Bond	ASTM D 1851	: no separation or cracking
Heat resistance @ 60°C	ASTM D 4479	: no sag, blistering on separation
Touch dry		: 24 - 36 hours
Full cure		: 7 days
Service temperature		: -5 to 80°C
Flash point		: 145°C
Resistance to water		: good
Movement accommodation factor (MAF)		: 10% for butt joints 20% for lap joints

Note: All values given are subject to 5 - 10% tolerance.

#### Directions for Use

##### Preparation

###### Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

New concrete should be fully cured with a maximum residual relative humidity (RH) of 75%.

Existing sealants should be cut out and removed prior to preparation of the joint faces.

Prepare concrete surfaces preferably by mechanical methods such as angle grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for **Corroseal RB**.

After preparation, small chips & arris imperfections can be repaired using **Corromortar FC** (see separate data sheet) to provide a smooth even surface. Allow **Corromortar FC** to cure for 24 hours and lightly abrade prior to priming.

Apply masking tape either side of the joint to protect surfaces from primers & excess material.

Insert **Corrocell** or **Corrotech Backing Rod** (see separate data sheets) into the prepared joint to create a slot for the sealant, with a width to depth ratio of between 2:1 & 1:1 in accordance with good joint sealant design.

##### Priming

Prior to the application of **Corroseal RB**, prime the prepared surface using **Corroprime SB**.

Stir **Corroprime SB** thoroughly to mix any solid materials that may have settled at the bottom of the packaging, until a homogenous consistency is achieved.

Apply **Corroprime SB** using brushes, at a theoretical coverage rate of 4 – 6 m<sup>2</sup> per litre. Allow the primer to become touch dry before applying the sealant.

A second priming coat may be required if the substrate is particularly porous.

Re-prime if the primer coat has not been sealed within 16 hours.

##### Mixing

No mixing is required for this product.

##### Application

We recommend checking the substrate before commencing sealing works to ensure it is at least 3°C above dew point.

Apply **Corroseal RB** into the prepared crack, joint or termination using a scraper, spatula or putty knife or solid barrel gun, ensuring the void is completely filled.

Immediately after application, finish the sealant in the joint by tooling it to a smooth finish with a mixture of water and a high concentration of washing up liquid.

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Remove the masking tape immediately after tooling.

#### Curing

**Corroseal RB** is a single-component material that cures depending on the atmospheric conditions & applied depth, therefore **Corroseal RB** may take 7 - 10 days to fully cure, but can remain tacky particularly in hot ambient conditions.

To avoid tackiness, cover the finished **Corroseal RB** with cement dust.

#### Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store materials in a cool preferably air conditioned environment.

Avoid exposure of materials to direct sunlight.

Avoid application during the hottest time of day.

#### Cleaning

Clean tools and equipment immediately after use with **Corroclean**.

#### Limitations

**Corroseal RB** should not be used in any joints subject to traffic.

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

The product should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

#### Estimating

**Corroseal RB** pack size: 20 kg pail. Coverage rate as per table below:

Guide to approximate quantities		
Joint size in mm (WxD)	Kg's per LM	For approximate quantities for joint sizes other than those given, please refer to the formulas given in the sealant estimating guide in the Corrotech Construction Chemicals Product Summary Guide.
10 x 10	0.12	
12 x 10	0.14	
15 x 10	0.18	
20 x 10	0.24	
15 x 15	0.27	
20 x 15	0.36	
25 x 15	0.45	
20 x 20	0.48	
25 x 20	0.60	
30 x 20	0.72	

**Corromortar FC** pack size: 8 kg. Coverage rate approximately 0.2 – 0.5 kgs per LM of joint depending on surface condition

**Corroprime SB** pack size: 20 & 200 litre drums. Coverage rate approximately 4 - 6 m<sup>2</sup> per litre

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption.

#### Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. No not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

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### Storage

**Corroseal RB** has a maximum shelf life of 6 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.