

# PRODUCT SPECIFICATION SHEET

## BELZONA 5122

FN10093



### GENERAL INFORMATION

**Product Description:**

A masonry treatment in the form of an aqueous penetrating liquid which when applied to porous surfaces forms an invisible micro-porous, water repellent barrier with the substrate. Supplied as a concentrate for dilution with water prior to use.

**Application Areas:**

Suitable for use on porous mineral substrates such as:

- Concrete
- Limestone
- Brick
- Asbestos cement
- Sandstone

### APPLICATION INFORMATION

**Working Life**

Once diluted the material will have a working life of 24 hours.

**Coverage Rate**

Dilute and apply as recommended in the Belzona IFU.

**Drying Times**

Drying times will be dependent on a number of factors such as temperature, humidity, and the porosity and moisture content of the substrate. Under normal conditions, however, the material will dry within 2 hours.

The development of water repellent properties commences immediately after application although it will take up to 24 hours for optimum performance to be achieved.

**Concentrate**

Appearance

Color

Viscosity

Non volatile content

Clear liquid

Yellow to Red

1 - 10 poise

> 60%

*The above application information serves as introductory guide only. For full application details including the recommended application procedure/technique, refer to the Belzona IFU which is enclosed with each packaged product.*

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### CHLORIDE ION INGRESS

The resistance to chloride ion ingress was determined by immersion of Portland cement cubes in NaCl solution and determining weight and chloride increases.

Weight gain after 21 days in 15% NaCl (%)		
Untreated	Treated	% reduction
2.14	0.43	80

Chloride ion content % by weight of concrete.		
Untreated	Treated	% reduction
0.223	0.037	83

### SHELF LIFE

**Belzona 5122** shall have a shelf life of 3 years from date of manufacture when stored in original unopened containers between 41°F (5°C) and 86°F (30°C).

### WATER ABSORPTION

#### Effect of Substrate pH on Water Absorption

This system is very effective on a wide range of substrate types, including alkaline materials such as cement and mortar. This is confirmed below:

pH of brick substrate	% H <sub>2</sub> O Uptake (kg/m <sup>2</sup> 24 hr.)		% Reduction in H <sub>2</sub> O after treatment
	Treated	Untreated	
7.8	0.012	1.653	99.3
8.1	0.005	1.240	99.6
9.7	0.023	2.648	99.1
9.9	0.023	2.353	99.0

#### Water Absorption

Typical values obtained after 24 hrs. (kg/m<sup>2</sup>)

Substrate	Untreated	Treated
Limestone	5.26	0.36
Sandstone	51.60	0.43
Brick	1.70	0.01
Dolomite	2.42	0.43

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### WARRANTY

Belzona guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the Belzona Information For Use leaflet. Belzona further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognised standards (ASTM, ANSI, BS, DIN, ISO etc.). Since Belzona has no control over the use of the product described herein, no warranty for any application can be given.

### AVAILABILITY AND COST

**Belzona 5122** is available from a network of Belzona Distributors throughout the world for prompt delivery to the application site. For information, consult the Belzona Distributor in your area.

### HEALTH AND SAFETY

Prior to using this material, please consult the relevant Material Safety Data Sheets.

### MANUFACTURER

Belzona Polymerics Ltd.  
Claro Road, Harrogate,  
HG1 4DS, UK

Belzona Inc.  
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Miami, Florida, USA, 33172

### TECHNICAL SERVICE

Complete technical assistance is available and includes fully trained Technical Consultants, technical service personnel and fully staffed research, development and quality control laboratories.

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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