BELZONA 5122 Product Specification Sheet

1. PRODUCT NAME

Belzona® 5122
(Clear Cladding Concentrate)
Clear repellent treatment for masonry surfaces.

2. MANUFACTURER

Belzona Inc.,
2000 N.W. 88th Court
Miami, Florida 33172

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

3. 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. Suitable for use on porous mineral substrates such as:

- Concrete
- Limestone
- Brick
- Asbestos cement
- Sandstone

4. TECHNICAL DATA

Appearance	Clear liquid
Color	Yellow to Red
Viscosity	1 - 10 poise
Non volatile content	> 60%

• Shelf Life:
When stored in unopened container between 41°F (5°C) and 86°F (30°C) the material will have a minimum shelf life of 3 years.

• Working Life:
Once diluted the material will have a working life of 24 hours.

• Coverage Rate:
After dilution (as recommended in the Instructions for Use leaflet) coverage rates for each litre of the diluted material will be as follows:

Asbestos cement	2.6 sq.m. (28.0 sq.ft.)
Smooth concrete	2.6 sq.m. (28.0 sq.ft.)
Smooth brick	2.6 sq.m. (28.0 sq.ft.)
Natural stone	2.1 sq.m. (22.6 sq.ft.)
Soft brick	1.3 sq.m. (14.0 sq.ft.)
Rough concrete	1.3 sq.m. (14.0 sq.ft.)

• 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.

5. PHYSICAL / MECHANICAL PROPERTIES

• 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

• 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_2O Uptake (kg/m² 24 hr.) Treated	Untreated
7.8	0.012	1.653
8.1	0.005	1.240
9.7	0.023	2.648
9.9	0.023	2.353

pH of brick substrate	% Reduction in H_2O Uptake after treatment
7.8	99.3
8.1	99.6
9.7	99.1
9.9	99.0

• Water Absorption:
Typical values obtained after 24 hrs. (kg/m²)

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

6. SURFACE PREPARATION AND APPLICATION PROCEDURES

For proper technique, refer to the Belzona® Instructions For Use Leaflet which is enclosed with each packaged product.

7. 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.

8. WARRANTY

Belzona® guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the Instructions 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 recognized standards (ASTM, ANSI, BS, DIN, etc.). Since Belzona® has no control over the use of the product described herein, no warranty for any application can be given.

9. TECHNICAL SERVICES

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

10. HEALTH AND SAFETY

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

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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