

# PRODUCT SPECIFICATION SHEET

## BELZONA 5151

FN10167



### GENERAL INFORMATION

#### Product Description:

A single component formulated latex emulsion. The product is based on high molecular weight polymers and oligomers offering elasticity, flexibility and outstanding weather resistance. The system prevents damage to surfaces from aggressive industrial, marine or natural pollutants and ultraviolet radiation. The self-cleaning properties ensure that the appearance of treated surfaces is maintained.

#### Application Areas:

When applied as detailed in the Belzona Instructions for Use (IFU), the system is ideally suited for application to the following:

- Walls
- Lintels
- Columns
- Wall panels
- Brickwork
- Stonework
- Cast concrete
- Coated steel
- Aluminum
- Existing painted surfaces

### APPLICATION INFORMATION

#### Coverage Rate

To ensure excellent adhesion, the substrate must be treated with **Belzona 3911** (PSC Conditioner). The coverage rate is dependent on the nature and texture of the substrate. In order to obtain the recommended average dry film thickness of 8 mil (200 micron), the practical coverage rates given in the Belzona IFU should be used as a guide.

#### Drying Time

This will depend largely on prevailing temperatures and relative humidity at the time of application. Typically, at 75°F (22°C) and 50% RH, a single layer of **Belzona 5151**, applied at a wet film thickness of 10 mils (250 microns), will become touch dry within 60 minutes and water resistant within 90 minutes.

#### A one component product

Appearance	Thixotropic liquid
Color	Limestone White
Viscosity at 77°F (25°C)	1 - 2.5 Poise
Density	1.16 - 1.23 g/cm <sup>3</sup>
Gel strength	
after 1 hour	180 - 260 g/cm
after 24 hours	225 - 335 g/cm
Solids content by weight	59 - 61%

*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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### ADHESION

Tested in accordance with ASTM D429, typical values obtained will be:

Glass	> 10 pli (1.75 N/mm)
Concrete	> 10 pli (1.75 N/mm)
Coated steel	> 10 pli (1.75 N/mm)

### ELONGATION & TENSILE PROPERTIES

#### Elongation

The elongation of the system after 7 days cure at 68°F (20°C) when tested against BS 2782 or similar test method is typically, 250%

#### Tensile Strength

The tensile strength of the system after 7 days cure at 68°F (20°C) when tested against BS 2782 or similar test method is typically, 410 psi (2.83 MPa).

#### 50% Tensile Modulus

Tested to ASTM D412 typical value is: 110 psi (0.76 MPa).

### FLEXURAL PROPERTIES

#### Flexibility

Tested at -11°F to +79°F (-24°C to +22°C) to ASTM D552 Conical Mandrel, the results are Pass at 1.5 inch (38mm). Tested to BS 3900 E1 180° Mandrel the results are Pass at 0.5 inch (12mm).

### TEAR STRENGTH

The tear strength of the system after 7 days cure at 68°F (20°C) is typically, 150 pli (26.25 N/mm).

### WATER VAPOR PERMEABILITY

When tested in accordance with ASTM D1653, typical value will be: 3.5 mg/cm<sup>2</sup>/mm/day.

### SHELF LIFE

**Belzona 5151** shall have a shelf life of 5 years from date of manufacture when stored in original unopened containers between 41°F (5°C) and 86°F (30°C).

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### WARRANTY

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 ensures that all its products are carefully manufactured to ensure the highest quality possible and are tested strictly in accordance with universally recognized 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 5151** 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 Safety Data Sheets.

### MANUFACTURER / SUPPLIER

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

Belzona Inc.  
14300 NW 60<sup>th</sup> Ave,  
Miami Lakes, FL, 33014, USA

### 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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