

# PRODUCT SPECIFICATION SHEET

## BELZONA 4131

FN10075



### GENERAL INFORMATION

**Product Description:**

A two component system consisting of high molecular weight polymers and oligomers incorporated with an aggregate mix. Once fully cured, the system provides excellent protection to concrete from the effects of impact, abrasion and chemical attack.

**Application Areas:**

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

- Floors
- Ramps
- Lifts
- Walls
- Stairways
- Chemical storage areas
- Aisles
- Warehouse loading bays
- Machinery/production areas

### APPLICATION INFORMATION

**Working Life**

Will vary according to temperature. At 77°F (25°C), use all mixed material within 30 minutes.

**Coverage Rates**

Each 20 kg unit applied at film thickness of ¼ inch (6 mm) will cover 15 sq.ft. (1.4 sq.m.).

**Cure Time**

Allow to solidify for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

**Volume Capacity**

524 cu.in. (8590 ccs) per 20 kg unit.

**Base Component**

Appearance	Damp sand
Color	Gray or Red
Density	2.42 g/cm <sup>3</sup>

**Solidifier Component**

Appearance	Liquid
Color	Clear
Density	0.98 g/cm <sup>3</sup>

**Mixed Properties**

Mixing Ratio by Weight (Base : Solidifier)	35 : 1
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*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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### ABRASION

#### Taber

When tested in accordance with ASTM D4060 with a 1kg load, typical loss per 1,000 cycles is:

Wet (H10 wheels)	635 mm <sup>3</sup>
Dry (CS17 wheels)	13 mm <sup>3</sup>

### ADHESION

#### Positest dolly pull-off (ASTM D4541)

Dry concrete	1400 psi (9.65 MPa)*
Wet concrete	810 psi (5.58 MPa)*

\* Cohesive failure of substrate

### CHEMICAL RESISTANCE

Demonstrates excellent chemical resistance to most inorganic acids up to 10% concentration and alkalis up to 20% concentration. Is resistant to salt solutions, hydrocarbons and mineral oils.

\* For a more detailed description of chemical resistance properties, refer to relevant Chemical Resistance chart.

### COMPRESSIVE PROPERTIES

#### Compressive Strength

When tested in accordance with ASTM D695 the compressive strength is typically 13,000 psi (89.6 MPa).

### FLEXURAL PROPERTIES

#### Flexural Strength

When tested to ASTM D790 is typically 4,750 psi (32.75 MPa).

### HEAT RESISTANCE

#### Heat Distortion Temperature (HDT)

The heat distortion temperature when tested to ASTM D648 is typically 108°F (42°C).

#### Heat Resistance

For many typical applications, the product is thermally stable to 300°F (150°C) dry and 140°F (60°C) wet, and down to -40°F (-40°C).

### IMPACT PROPERTIES

#### Impact Strength

The Izod (unnotched) impact strength when tested to ASTM D256 is typically 2.45 kJ/m<sup>2</sup>.

### SHELF LIFE

All components will have a shelf life of at least 5 years when stored between 32°F (0°C) and 86°F (30°C).

### APPROVALS/ACCEPTANCES

The material has received recognition from organizations worldwide including:  
U.S.D.A.

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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 4131** 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.  
2000 N.W. 88<sup>th</sup> Court,  
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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ISO 9001:2008  
Q 09335  
ISO 14001:2004  
EMS 509612

Manufactured under an ISO 9000  
Registered Quality Management System

