

# PRODUCT SPECIFICATION SHEET

## BELZONA 4131

FN10217



### 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

520 cu.in. (8,525 ccs) per 20 kg unit.

#### Base Component

Appearance Damp sand  
Colour Grey or Red  
Density 2.43 g/cm<sup>3</sup>

#### Solidifier Component

Appearance Liquid  
Colour Clear  
Density 1.08 g/cm<sup>3</sup>

#### Mixed Properties

Mixing Ratio by Weight (Base : Solidifier) 35 : 1  
Mixed Density 2.34 g/cm<sup>3</sup>

*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)	208 mm <sup>3</sup>
Dry (CS17 wheels)	7 mm <sup>3</sup>

### ADHESION

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

Dry concrete	1,530 psi (10.55 MPa)*
Wet concrete	1,890 psi (13.03 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

When determined in accordance with ASTM D695, typical values will be:

	Compressive Strength	Proportional Limit	Youngs Modulus
68°F/20°C	49.5 MPa	46.5 MPa	1,493.3 MPa
cure & test	7,184 psi	6,738 psi	2.17 x 10 <sup>5</sup> psi
68°F/20°C	73.5 MPa	69.9 MPa	1,612.5 MPa
cure & test (Heavily Compacted)	10,924 psi	10,137 psi	2.34 x 10 <sup>5</sup> psi

### FLEXURAL PROPERTIES

#### Flexural Strength

When tested to ASTM D790 is typically 4,856 psi (33.49 MPa)

### HEAT RESISTANCE

#### Heat Distortion Temperature (HDT)

The heat distortion temperature when tested to ASTM D648 is typically 111°F (44°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 RESISTANCE

#### Izod Pendulum

Izod impact strength, when determined in accordance with ASTM D256, will typically be:

	Reversed notched Izod Impact Strength	Un-notched Izod Impact Strength
68°F/20°C	1.8 KJ/m <sup>2</sup>	1.9 KJ/m <sup>2</sup>
cure & test	18.6 J/m	24.8 J/m

### SHELF LIFE

Separate base and solidifier components shall have a shelf life of 5 years from date of manufacture when stored in their 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 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.

### MANUFACTURER / SUPPLIER

Belzona Limited,  
Claro Road, Harrogate,  
HG1 4DS, UK

### HEALTH AND SAFETY

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

### 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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