

# PRODUCT SPECIFICATION SHEET

## BELZONA 4361

FN10152



### GENERAL INFORMATION

#### Product Description:

A flexible high performance, two-component barrier coating with outstanding resistance to a broad range of chemicals, especially acids and alkalis.

#### Application Areas:

When mixed and applied as detailed in the Belzona Instructions for Use (IFU), the system, which isolates concrete from aggressive chemical environments, is ideally suited for application to:

- Chemical containment areas
- Acid retaining walls
- Chemical drains and channels
- Chemical transfer and holding areas
- Walkways (with non-slip aggregate incorporated)

### APPLICATION INFORMATION

#### Application Methods

Brush or squeegee

#### Application Temperature

Application should ideally occur in the following ambient temperature range: 59°F/15°C to 86°F/30°C

#### Cure Time

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

Note: Below 59°F (15°C), solidification times will be significantly extended and the resultant chemical resistance capability of the **Belzona 4361** may be reduced.

#### Coverage rate

**Belzona 4361** should be applied as a two coat system at a recommended average thickness of 10 mil (250 µm) per coat.

At the minimum recommended two coat system thickness of 16 mil (400 µm), the theoretical coverage rate will be 33.4 ft<sup>2</sup> (3.1 m<sup>2</sup>)/1.5 kg unit.

#### Volume Capacity

76 cu.ins. (1240 cm<sup>3</sup>) per 1.5 kg unit.

#### Working Life

The working life will vary according to the temperature. At 68°F/20°C, the usable life of mixed material will typically be 30 minutes, consult the Belzona IFU for specific details.

#### Base Component

Appearance Thixotropic liquid  
Colour Black or Red  
Gel Strength 85 -135 g/cm<sup>3</sup>  
Density 1.24 - 1.28 g/cm<sup>3</sup>

#### Solidifier Component

Appearance Clear Liquid  
Colour Yellow/brown  
Viscosity (BS 5350-B8) 3.6 - 4.2 poise at 77°F (25°C)  
Density 1.08 - 1.12 g/cm<sup>3</sup>

#### Mixed Properties

Mixing Ratio by Weight (Base : Solidifier) 3 : 1  
Mixing Ratio by Volume (Base : Solidifier) 2.8 : 1  
Colour Black or Red  
Density 1.19 - 1.23 g/cm<sup>3</sup>  
Viscosity (BS 5350-B8) 27.5 - 28.1 poise at 77°F (25°C)  
Sag Resistance (BS 5350-B9) >500 µm / >20 mils  
60° Specular Gloss (ASTM D2457) 90 - 100 Gloss Units  
VOC content (ASTM D2369 / EPA ref. 24) 3.44% / 41.57 g/L

*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.*

# PRODUCT SPECIFICATION SHEET

## BELZONA 4361

FN10152



### ABRASION

#### Taber

The sliding abrasion resistance, when determined in accordance with ASTM D4060 with 1 kg load, is typically:  
 CS17 wheels (Dry) 62.9 mm<sup>3</sup> loss per 1000 cycles

### ADHESION

#### Pull Off Adhesion

The PosiTest Dolly Pull Off Strength as determined in accordance with ASTM D4541 and ISO 4624, will typically be:

(68°F/20°C cure)  
 Dry Concrete<sup>1</sup>: 810 psi (5.6 MPa)\*  
 Damp Concrete<sup>1</sup>: 780 psi (5.4 MPa)\*

<sup>1</sup>Conforms to ISO 13640 & EN 196

\*Cohesive failure of substrate

### CHEMICAL RESISTANCE

The material will demonstrate excellent resistance to a broad range of chemicals. For a more detailed description of chemical resistance properties, refer to relevant Chemical Resistance chart.

Note: Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance or colour stability following contact.

### COMPRESSIVE PROPERTIES

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

	Compressive Strength	Proportional Limit	Youngs Modulus
68°F/20°C	139.4 MPa	9.52 MPa	53.3 MPa
cure & test	20,218 psi	20,615 psi	0.08 x 10 <sup>5</sup> psi

### ELONGATION

When tested to ASTM D412 (Die C), typical values will be:  
 (68°F/20°C cure) 20%  
 (104°F/40°C cure) 16%

### FIRE RESISTANCE

When tested in accordance with BS EN 13501-1 for reaction to fire, the system achieved Class E.

### FLEXURAL YIELD STRENGTH

When determined in accordance with ASTM D790, typical values will be:  
 (68°F/20°C cure) 940 psi (6.5 MPa)

### HARDNESS

#### Shore D

When determined in accordance with ASTM D2240, typical value will be:  
 60 68°F (20°C) cure

### HEAT RESISTANCE

#### Glass Transition Temperature (T<sub>g</sub>)

The T<sub>g</sub> when determined in accordance with ISO 11357-2 will typically be:  
 (68°F/20°C cure) 79°F(26°C)

#### Dry Heat Resistance

The indicated degradation temperature in air based on Differential Scanning Calorimetry (DSC) operated in accordance with ISO11357 is typically 266°F (130°C).  
 For many applications the product is suitable 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	42.5 KJ/m <sup>2</sup>	34.7 KJ/m <sup>2</sup>
cure & test	442.2 J/m	439.1 J/m

#### Falling Weight

The direct falling weight impact resistance when determined in accordance with ASTM D2794 will typically be:  
 (68°F/20°C cure) >78.7 in.lbs (>0.91 kg.m)

### LOW TEMPERATURE FLEXIBILITY

Maintains flexibility down to 32°F (0°C) passing ASTM D552 mandrel test at minimum 16 mm diameter (11.5% elongation).

# PRODUCT SPECIFICATION SHEET

## BELZONA 4361

FN10152



### TENSILE PROPERTIES

#### Tensile Strength

When tested to ASTM D412 (Die C), typically values will be:  
(68°F/20°C cure) 3490 psi (24.1 MPa)  
(104°F/40°C cure) 4480 psi (30.9 MPa)

#### Crack propagation on concrete

When tested in accordance with German DIBt test standards at a crack propagation rate of 0.02mm/min, the system will typically achieve a gap width of 0.38mm before failure.

### SHELF LIFE

Separate base and solidifier components shall have a shelf life of 2 years from date of manufacture when stored in their original unopened containers between 41°F (5°C) and 77°F (25°C). Refrigeration of this product will extend the shelf life.

### 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 4361** 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

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

### 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.

Nothing in the foregoing statement shall exclude or limit any liability of Belzona to the extent such liability cannot by law be excluded or limited.

Copyright © 2025 Belzona International Limited. Belzona® is a registered trademark.

*Belzona products are  
manufactured under an  
ISO 9001 Registered  
Quality Management System*

