

# PRODUCT SPECIFICATION SHEET

## BELZONA 5841

FN10103



### GENERAL INFORMATION

**Product Description:**

A two component, solvent free coating for protection of steelwork subject to Corrosion Under Insulation. The system is specifically designed for application onto hot surfaces in the range 86 - 176°F (30 - 80°C).

**Application Areas:**

When mixed and applied as detailed in the Belzona Instructions for Use (IFU), the system provides corrosion protection to steelwork covered with thermal insulation.

### APPLICATION INFORMATION

**Working Life**

Will vary according to temperature. At 68°F (20°C) the usable life of mixed material is 1 hour.

**Coverage Rate**

The coverage rate and film thickness is dependent on the substrate temperature. Refer to the Belzona IFU for theoretical and practical coverage rates.

**Cure Time**

The cure time for **Belzona 5841** is dependent on the substrate temperature. Allow to cure for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

**Base Component**

Appearance	Viscous liquid
Color	Grey
Density	2.23 - 2.27 g/cm <sup>3</sup>

**Solidifier Component**

Appearance	Clear mobile liquid
Color	Amber
Density	1.04 - 1.08 g/cm <sup>3</sup>

**Mixed Properties**

Mixing Ratio by Weight (Base : Solidifier)	8.5 : 1
Mixing Ratio by Volume (Base : Solidifier)	4 : 1
Mixed Density	1.99 - 2.03 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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### ADHESION

#### Tensile Shear

When tested in accordance with ASTM D1002 typical values will be:

Grit blasted steel	3,500 psi (24.1 MPa)
Ground steel	3,500 psi (24.1 MPa)

#### Pull-Off Strength

When tested in accordance with ASTM D4541 typical values will be:

Grit blasted steel	1,800 psi (12.4 MPa)
Ground steel	1,800 psi (12.4 MPa)
Rusty steel prepared to ISO 8501-1 St 3	1,400 psi (9.65 MPa)

### IMPACT STRENGTH

The falling weight impact resistance of the material when tested in accordance with ASTM D2794 is typically:

23 in.lb.(2.6Nm)	after cure at 68°F (20°C)
39 in.lb.(4.4Nm)	after cure at 176°F (80°C)

### 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 32°F (0°C) and 86°F (30°C).

### CHEMICAL RESISTANCE

Once fully cured, the material will demonstrate excellent resistance to most commonly found inorganic acids and alkalis at concentrations up to 20%. The material is also resistant to hydrocarbons, mineral oils, lubricating oils and many other commonly found chemicals.

### CORROSION RESISTANCE

Will show no visible signs of corrosion after 1,000 hours exposure in the ASTM B117 salt spray cabinet.

### HARDNESS

#### Shore D

The Shore D hardness of the material when tested to ASTM D2240 is typically:

80	after 24 hours cure at 68°F (20°C)
82	after 24 hours cure at 176°F (80°C)

### HEAT RESISTANCE

#### Heat Distortion Temperature

When tested to ASTM D648 (264 psi fiber stress), typical values obtained will be:

203°F (95°C)	after 7 days cure at 176°F (80°C)
123°F (51°C)	after 7 days cure at 68°F (20°C)

#### Dry Heat Resistance

The indicated degradation temperature in air based on Differential Scanning Calorimetry (DSC) operated in accordance with ISO11357 is typically 428°F (220°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 5841** 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

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

Belzona Inc.  
2000N.W. 88<sup>th</sup> Court,  
Miami, Florida, USA, 33172

### HEALTH AND SAFETY

Prior to using this material, please consult the relevant Material 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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