

# PRODUCT SPECIFICATION SHEET

## BELZONA 6111

FN10108



### GENERAL INFORMATION

**Product Description:**

A two part zinc rich epoxy system providing corrosion protection to steel- work. The material is solvent based and can be brush or spray applied.

**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:

- All structural steelwork
- Tanks
- Pipes
- Cooling Towers
- Bridges

### APPLICATION INFORMATION

**Working Life**

Once mixed the usable life will vary with temperature:

50°F (10°C)	72 hours
68°F (20°C)	48 hours
86°F (30°C)	24 hours

**Coverage Rate**

The average practical coverage rate for two coats at 1½ mils (38 micron) dry film thickness per coat (total 3 mils or 76 micron) is 19.4 sq.ft. (1.8 sq.m.) per kg.

**Cure Time**

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

**Zinc Content**

The zinc content of the applied dry film is not less than 90%.

**VOC Content**

	lbs/US gal	g/litre
Base	3.41	408
Solidifier	5.37	643
Mixed	3.96	475

**Base Component**

Appearance	Viscous Liquid
Colour	Grey
Odour	Solvent
Viscosity	2.4 - 3.4 Poise
Solids by weight	87.6%
Solids by volume	53.2%
Density	3.275 - 3.342g/cm <sup>3</sup>
Flash Point	>73°F (23°C)

**Solidifier Component**

Appearance	Mobile liquid
Colour	Blue or Amber
Odour	Solvent
Density	0.92 - 0.93 g/cm <sup>3</sup>
	0.905 - 0.915 g/cm <sup>3</sup>
Solids by weight	31.8 %
Solids by volume	26.8 %
Flash point	> 73°F (23°C)

**Mixed Properties**

Mixing Ratio by Volume (Base : Solidifier)	3.5 : 1
Density	2.62g/cm <sup>3</sup>
Solids by weight	84%
Solids by volume	49%
wet film thickness	3 mils (76 microns)
dry film thickness	1½ mils (38 microns)
Appearance	Liquid
Colour	Blue or grey
Odour	Solvent

*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 the typical tensile shear adhesion obtained is 1150 psi (7.9 MPa).

#### Cross Hatch

When tested in accordance with BS 3900 Part E6 a 100% pass is obtained.

### CHEMICAL RESISTANCE

If the **Belzona 6111** system is likely to come into contact with aggressive chemicals, **Belzona 5111** (Ceramic Cladding) should be used to overcoat the **Belzona 6111**. For further details contact your Local Belzona Technical Consultant.

### CORROSION RESISTANCE

BS 3900: Part F4 artificial sea water spray 3,000 hours exposure with no corrosion breakdown on the system.

BS 3900: Part F3 artificial weathering 60 weeks (equivalent to 20 years natural weathering) with no corrosion breakdown on the system.

### FLEXURAL STRENGTH

Tested on a ½" diameter mandrel a pass is achieved with no cracking or flaking.

### HEAT RESISTANCE

#### Heat Resistance

For many typical applications the material is suitable for use between -40°F (-40°C) and 140°F(60°C) Wet 392°F (200°C) Dry

### IMPACT RESISTANCE

When tested in accordance with BS 3900 Part E3 a pass is obtained up to 0.05 inch (1.25 mm).

### SHELF LIFE

Separate base and solidifier components shall have a shelf life of 3 years from date of manufacture when stored in their original unopened containers between 32°F (0°C) and 86°F (30°C).

### APPROVALS/ACCEPTANCES

The material has received recognition from organizations worldwide including:

USDA

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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 6111** 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 Limited,  
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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