

# PRODUCT SPECIFICATION SHEET

## BELZONA 3111

FN10221



### GENERAL INFORMATION

#### Product Description:

A single component formulated acrylic ester copolymer emulsion. It is used in conjunction with **Belzona 3911** (PSC Surface Conditioner) or **Belzona 3921** (GSC Surface Conditioner) and **Belzona 9311** (Reinforcing Sheet).

This liquid base binds to the **Belzona 9311** to form a tough, flexible and elastic polymeric film which can tightly follow all roof contours. For preventive maintenance and repairs, the system provides long term weatherproofing and water-proofing of almost all types of roof substrate and offers outstanding protection against infrared and ultra-violet radiation, and natural and industrial pollutants. It is impermeable to liquid water, but permeable to water vapor, thus allowing a moist roof to breathe. Also used to water and weatherproof non-roof structures such as storage tank bases.

#### Application Areas:

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

- Gutters
- Joints
- Ponded Areas
- Parapet Walls
- Seams
- Flat Roof Areas
- Glazing Bars
- Flashings
- Complex Roofs and Domes
- Tank Base Sealing

### APPLICATION INFORMATION

#### Drying Time

Applied under good drying conditions, will be water resistant within 30 minutes of application. Under cool or humid conditions, this time will be extended. The product should not be applied when the relative humidity is above 90% or the surface temperature is below 41°F (5°C).

#### Coverage Rates

The first layer is applied to a dry film thickness of 10 mil (250 micron). This dry film thickness measurement includes the synthetic reinforcing sheet. The second layer should be applied to a dry film thickness of 6 mil (150 micron), giving an overall film thickness of approximately 16 mil (400 micron). Refer to the IFU for a guide to practical coverage rates.

#### Properties

Appearance	Thixotropic liquid
Colour	Available in Grey and White
Odour	Very slight ammoniacal
Density	1.235 - 1.275 g/cm <sup>3</sup>
Gel strength at 77°F (25°C)	80 - 110 g/cm
Freezing point	32°F (0°C)
Volatile by volume	38.0%

*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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### ELONGATION PROPERTIES

The elongation of the reinforced system after 7 days cure at 68°F (20°C) when tested against BS 2782 or similar test method is typically:

20% lengthwise,  
100% crosswise.

### HEAT RESISTANCE

In accordance with European Technical Assessment (ETA 05-0075) the Belzona 3111 system is categorized for use in climatic zone M (temperate) with minimum surface temperature of -20°C and maximum 80°C)

### SOLAR REFLECTANCE & EMITTANCE

#### Solar Reflectance

When tested in accordance with ASTM E903, subjected to wavelengths of 300 nm to 2250 nm, the solar reflectance will typically range between:

0.792 - 0.790 White

#### Emittance

When tested in accordance with ASTM C1371, the average emissivity is typically:

0.915 White

#### Solar Reflectance Index

When tested in accordance with ASTM E1980, the solar reflectance index is typically:

98.95% White

### TEAR STRENGTH

The Tear Strength of the reinforced system after 7 days cure at 68°F (20°C), when tested in accordance with ASTM D624, will typically be:

188 pli (33.0 N/mm) lengthwise,  
188 pli (33.0 N/mm) crosswise

### TENSILE PROPERTIES

#### Tensile Strength

The tensile strength of the reinforced system after 7 days at 68°F (20°C) when tested against BS 2782 or similar test method is typically:

1450 psi (10.0 N/mm<sup>2</sup>) lengthwise,  
580 psi (4.0 N/mm<sup>2</sup>) crosswise

### VAPOR RESISTANCE

The vapor resistance of the reinforced system after 7 days cure at 68°F (20°C) is typically 33 MN/sg

### WATER VAPOR PERMEABILITY

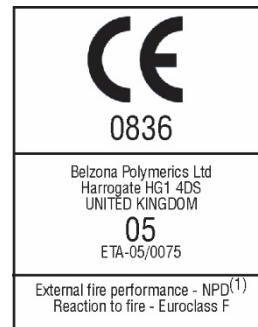
When tested in accordance with ASTM E96 the fully reinforced system after 7 days cure at 68°F (20°C) will have the following typical values:

Water vapor permeability 30g/m<sup>2</sup>/24hrs  
Permeance 2.16 US Perms

### SHELF LIFE

**Belzona 3111** shall have a shelf life of 5 years from date of manufacture when stored in original unopened containers between 41°F (5°C) and 86°F (30°C).

### APPROVALS/ACCEPTANCES



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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 3111** 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.

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