

# PRODUCT SPECIFICATION SHEET

## BELZONA 4511

FN10206



### GENERAL INFORMATION

#### Product Description:

A two-component, solvent free, fluid elastomeric sealant for vertical/horizontal building and expansion joints. Once combined, the base and solidifier form a flexible, elastomeric compound with low modulus.

#### Application Areas:

This material is designed for sealing building and expansion joints with up to  $\pm 12.5\%$  movement. It is suitable for applications on:

- Vertical structures
- Concrete bleachers and steps
- Concrete bases
- Adjacent walls
- Concrete access ramps
- Doors, windows and other openings

### APPLICATION INFORMATION

#### Working Life

The usable life will vary according to temperature. At 72°F (22°C), use all mixed material within 90 minutes.

#### Volume Capacity

204.8 in<sup>3</sup> (3354 cm<sup>3</sup>) per 4.2 kg unit.

#### Cure Time

Will be reduced for thicker sections and extended for thinner applications. Allow to solidify for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

#### Base Component

Appearance: Viscous grey liquid  
Density: 1.22 - 1.25 g/cm<sup>3</sup>

#### Solidifier Component

Appearance: Clear yellow liquid  
Density: 1.00 - 1.02 g/cm<sup>3</sup>

#### Mixing Properties

Mix by Weight (Base : Solidifier) 6.4 : 1  
Mix by Volume (Base : Solidifier) 5.1 : 1

*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.*

### ADHESION

#### Peel Adhesion

The 90° peel adhesion when tested in accordance with ASTM D429 (modified) is typically:

<b>Blasted Steel</b>	45.1 pli (805.4 kg/m)*
<b>Aluminum</b>	51.2 pli (914.3 kg/m)*
<b>Concrete</b>	39.7 pli (708.8 kg/m)*
<b>Belzona 4111</b>	43.2 pli (771.5 kg/m)*

- Cohesive failure in Belzona 4511

### ELONGATION & TENSILE PROPERTIES

#### Elongation

Tested in accordance with ASTM D412 (Die C) is typically 260%.

#### Tensile Strength

Tested in accordance with ASTM D412 (Die C) is typically in range 450-500 psi (31.6–37.7 kg/cm<sup>2</sup>).

### EXPANSION JOINT APPLICATIONS

Material is tested against a modified ASTM C-719 "Adhesion and Cohesion of Elastomeric Joint Sealant" and qualified as a Class 25, Type M, Grade N sealant ( $\pm 12.5\%$  movement).

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CHEMICAL RESISTANCE

Once fully cured, the material will demonstrate excellent resistance to a broad range of chemicals.

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).

TEAR STRENGTH

**Tear Strength**

Tested in accordance with ASTM D624 is typically 77.5 pli (1384 kg/m).

HARDNESS

**Shore A**

Tested in accordance with ASTM D2240 is typically 63.

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 4511** 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 Polymerics Ltd.  
Claro Road Harrogate HG1  
4DS United Kingdom

Belzona Inc  
14300 NW 60th 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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*Belzona products are manufactured under an ISO 9001 Registered Quality Management System*