

Product Specification Sheet

Belzona 9631

FN10233



General Information

Product Description:

A fast-setting and ready-to-use glass-fiber composite pre-impregnated with a water-activated resin

Application Areas:

The system is ideally suited for application to the following:

- Leaking piping
- Cracked piping
- Corroded piping
- Pipe elbows
- Irregular pipe fittings
- T-pieces
- Underwater repairs

Application Information

Working Life: The working life will vary according to application temperature. At 68 °F (20 °C), the working life will typically be 3 - 7 min upon water contact. Consult the Belzona IFU for specific details.

Cure Times: Cure times will vary depending on humidity and temperature. Consult the Belzona IFU for specific details.

Composite Properties

Appearance	Resin-impregnated glass fiber fabric
Color	Black
Dry fabric weight	11.7 oz./yd ² (0.08 lb./ft ²)
Size	2 in. x 5 ft. 4 in. x 15 ft.

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 tensile shear adhesion of the composite applied onto substrates cleaned to the requirements of SSPC-SP 11 and cured at 72 °F (22 °C) for 7 days will typically be:

Dry Copper	730 psi (5.0 MPa)
Wet Copper	580 psi (4.0 MPa)
Dry Mild Steel	740 psi (5.1 MPa)
Wet Mild Steel	590 psi (4.1 MPa)
Dry Stainless Steel	570 psi (3.9 MPa)
Wet Stainless	430 psi (3.0 MPa)

Flexural Properties

When tested in accordance with ASTM D790, the flexural strength and modulus of 9-layer composite samples cured at 72 °F (22 °C) for 7 days will typically be:

Flexural Strength

7,800 psi (53.8 MPa)

Flexural Modulus

3.8 x 10⁵ psi (2.6 GPa)

Hardness

Shore D

When tested in accordance with ASTM D2240, the Shore D hardness of composite samples cured at 72 °F (22 °C) for 7 days will typically be:

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Heat Resistance

Glass Transition Temperature (T_g)

When tested to ISO 11357-2, T_g of samples cured at 72 °F (22 °C) for 7 days will typically be:

239 °F (115 °C)

Pressure Retention

When tested on a 3 in. (76 mm) diameter pipe section, prepared to SSPC SP11, with a defect up to 6 mm diameter, typical value for a 9-layer composite repair cured at 72 °F (22 °C) for 1 hour will be:

100 psi (0.7 MPa)

Tensile Properties

When determined in accordance with ASTM D412 (Die C), typical values of samples cured and tested at 72 °F (22 °C) for 7 days will be:

Tensile Strength	31,960 psi (220 MPa)
Young's Modulus	9.3 x 10 ⁵ psi (6.4 GPa)

Shelf Life

Belzona 9631 has a shelf life of 2 (two) years from date of manufacture when stored in the original unopened container between 41 °F (5 °C) and 86 °F (30 °C).

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Warranty

Belzona guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the Belzona Information for Use (IFU) leaflet.

Belzona further guarantees that all its products are carefully manufactured to ensure the highest quality possible and 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 9631 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 Material Safety Data Sheets.

Manufacturer/Supplier

Belzona Polymerics Limited
Claro Road
Harrogate HG1 4DS
United Kingdom

Belzona, Inc.
14300 NW 60th 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. 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.

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Belzona products are manufactured under an ISO 9001 registered Quality Management System.

