PRODUCT SPECIFICATION SHEET BELZONA 9631

FN10194

GENERAL INFORMATION

Product Description:

Belzona 9631 is a fast setting, ready to use glass fibre composite, pre-impregnated with a water activated resin.

Application Areas:

The system is suited for application to:

- Leaking pipes
- Cracked pipes
- Corroded pipes
- Pipe elbows

- Irregular pipe fittings
- T-pieces
 - Underwater repairs

APPLICATION INFORMATION

Working Life

Will vary according to temperature. At 68°F (20°C), the working life will typically be 3 minutes.

Properties Appearance Colour Size

Resin impregnated glass fibre White 5 x 150cm

Cure Time

The cure time of Belzona 9631 is dependent on humidity and temperature, consult the Belzona IFU for more details.

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

Tensile Shear Adhesion

The Tensile Shear Adhesion on metal and plastic substrates as determined in accordance with ASTM D1002, following cure at $68^{\circ}F/20^{\circ}C$, will typically be:

Substrate	Ground (SSPC-SP11) (ISO 850-1 St3)
Dry Mild Steel	750 psi / 5.2 MPa
Wet Mild Steel	990 psi / 6.8 MPa
Dry Copper	330 psi / 2.3 MPa
Wet Copper	850 psi / 5.9 MPa
Dry Stainless Steel	980 psi / 6.8 MPa
Wet Stainless Steel	1040 psi / 7.2 MPa
Dry GRP	360 psi / 2.5 MPa
Wet GRP	490 psi / 3.4 MPa

Tensile Shear Adhesion (Immersion)

The Tensile Shear Adhesion on ground mild steel, as determined in accordance with ASTM D1002 measured after 1000 hours immersion in water at $104^{\circ}F/40^{\circ}C$ will typically be:

Cure (Test) temperature	Tensile Shear Adhesion
104°F/40°C (68°F/20°C)	1170 psi / 8.1 MPa

FLEXURAL PROPERTIES

When determined in accordance with ASTM D790, following cure at $68^{\circ}F/20^{\circ}C$, typical values for **Belzona 9631** tested as a ninelayer composite will be:

Flexural Strength Flexural Modulus 23.8 x 10³ psi / 165 MPa 22.3 x 10⁵ psi / 15380 MPa

HARDNESS

 Shore D

 When determined in accordance with ASTM D2240, typically value will be:

 60
 68°F (20°C) cure

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Heat Distortion Temperature (HDT)

Tested to ASTM D648 (264 psi fibre stress), typical value obtained will be: 150°F (66°C)

68°F (20°C) cure

PRESSURE RETENTION

When tested on a 76mm/3-inch diameter pipe, prepared to SSPC-SP11, with a defect up to 6mm diameter, typical value for Belzona 9631 tested as a nine-layer composite will be 100 psi / 7 bar.

TENSILE STRENGTH

When determined in accordance with ASTM D412 (Die C), the tensile strength will typically be:

36.2 x 10³ psi / 250 MPa

68°F (20°C) cure

SHELF LIFE

Belzona 9631 will have a shelf life of 24 months from date of manufacture when stored in the original unopened packaging between 32°F/0°C and 104°F/40°C.

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 all its products are carefully manufactured to ensure the highest quality possible and are tested strictly in accordance with universally recognised 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.

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.

Prior to using this material, please consult the relevant Safety Data Sheet

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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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