PRODUCT SPECIFICATION SHEET
BELZONA 5711
FN10212

BELZONA®
Repair • Protect • Improve

GENERAL INFORMATION

Product Description:
A high performance, two component, solvent free system for the repair of erosion and impact damage on the leading edge of wind turbine blades. For use in repair situations or Original Equipment Manufacture (OEM). **Belzona 5711** is optimised for ease of application and rapid cure. **Belzona 5711** is designed to be used in combination with **Belzona 5721** to provide long lasting protection against rain erosion and impact damage.

APPLICATION INFORMATION

Application Methods
Applicator
Former

Application Temperature
Application should occur in the following ambient temperature range: 5 °C/41 °F to 40 °C/104 °F.

Volume Capacity
254 cm^3 (15.5 cu.in)/400 g cartridge.

Cure Time
The cure time is dependent on ambient conditions. At 20 °C, the product will be sandable/hard dry after 60 minutes. Allow to cure for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

Base Component

Appearance	Thixotropic paste
Colour	Grey
Density	1.73 - 1.75 g/cm^3

Solidifier Component

Appearance	Thixotropic paste
Colour	White
Density	1.23 - 1.25 g/cm^3

Mixed Properties

Appearance:	Thixotropic paste
Colour:	Light Grey
Density	1.57 g/cm^3
Slump resistance:	>6mm/0.25 in
VOC content (ASTM D2369 / EPA ref. 24):	0.05% / 0.71 g/L

Mix Ratio

Mixing Ratio by Weight (Base : Solidifier)	2.8 : 1
Mixing Ratio by Volume (Base : Solidifier)	2 : 1

Overcoat Window
Overcoat times will be dependent on ambient conditions. At 20 °C and 50% humidity, the minimum overcoat time will be 30 minutes. The maximum overcoat time will be 24 hours. Consult the Belzona IFU for specific details.

Working Life
The working life will vary depending on ambient conditions. At 20 °C/68 °F and 50% relative humidity, the usable life of mixed material will typically be 12 minutes. Consult the Belzona IFU for specific 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.

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ABRASION

Taber
The Taber abrasion resistance determined in accordance with ASTM D4060 with 1 kg load is typically:

CS17 Wheels (Dry)
17 mm^3 loss per 1,000 cycles — 20 °C/68 °F cure & test

ADHESION

Pull off Adhesion
The PosiTest Dolly Pull Off strength on GRP composite, as determined in accordance with ASTM D4541 and ISO 4624, will typically be:

10.6 MPa / 1,540 psi* — 20 °C/68 °F cure & test

**Cohesive failure of GRP composite*

The PosiTest Dolly Pull Off strength on 10 mm thick grit blasted mild steel, as determined in accordance with ASTM D4541 and ISO 4624, will typically be:

28.6 MPa / 4,149 psi* — 20 °C/68 °F cure & test

Cohesive failure of **Belzona 5711*

Tensile Shear Adhesion
The tensile shear adhesion on grit blasted mild steel, as determined in accordance with ASTM D1002, will typically be:

19.62 MPa / 2,845 psi — 20 °C/68 °F cure & test

Cleavage Adhesion
The cleavage adhesion on grit blasted mild steel, as determined in accordance with ASTM D1062, will typically be:

257 N/mm / 1,468 pli — 20 °C/68 °F cure & test

COMPRESSIVE PROPERTIES

When determined in accordance with ASTM D695, typical values will be:

Compressive Yield Strength
54.09 MPa / 7,845 psi — 20 °C/68 °F cure & test

Compressive Modulus
1,111 MPa / 1.61 x 10^5 psi — 20 °C/68 °F cure & test

FLEXURAL PROPERTIES

When determined in accordance with ASTM D790, typical values will be:

Flexural Strength
49.5 MPa / 7,179 psi — 20 °C/68 °F cure & test

Flexural Modulus
3,835 MPa / 5.56 x 10^5 psi — 20 °C/68 °F cure & test

HARDNESS

Shore D
The Shore D hardness of the material tested to ASTM D2240 is typically:

84 — 20 °C/68 °F cure & test

Barcol (Model 935)
The Barcol hardness of the material tested to ASTM D2583 is typically:

80 — 20 °C/68 °F cure & test

HEAT RESISTANCE

Heat Distortion Temperature (HDT)
When determined in accordance with ASTM D648, the HDT will typically be:

59 °C / 138 °F — 20 °C/68 °F cure & test

IMPACT STRENGTH

Izod Impact
When tested in accordance with ASTM D256, the reverse notched impact strength will typically be:

6.52 kJ/m^2 — 20 °C/68 °F cure & test

SHELF LIFE

Belzona 5711 shall have a shelf life of 3 years from date of manufacture when stored in the original unopened foil sachets between 5 °C (41 °F) and 30 °C (86 °F).

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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 5711 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, UK

Belzona Inc.
14300 N.W. 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.

Belzona products are manufactured under an ISO 9001 Registered Quality Management System