

PRODUCT SPECIFICATION SHEET

BELZONA 5721

FN10237



GENERAL INFORMATION

Product Description:

A high performance, two component, solvent free coating system for the protection of leading edges on wind turbine blades. For use in repair situations or Original Equipment Manufacture (OEM). **Belzona 5721** offers high erosion resistance, is optimised for ease of application and a rapid return to service.

APPLICATION INFORMATION

Application Methods

Brush
Applicator

Application Temperature

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

Coverage Rate

Belzona 5721 can be applied as a one coat or two coat system at a target thickness of 500 microns (20 mil) per coat.

Applied at a thickness of 500 microns (20 mil), the theoretical coverage rate will be 1.3 m² (14.0 sq.ft)/kg.

Cure Time

The cure time is dependent on ambient conditions. Allow to cure for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

Base Component

Appearance Thixotropic liquid
Colour White or Light Grey
Density 1.72 - 1.74 g/cm³

Solidifier Component

Appearance Liquid
Colour Clear, colourless
Density 1.12 - 1.16 g/cm³

Mixed Properties

Appearance: Thixotropic liquid
Colour: White or Light Grey (RAL 7035)
Density 1.53 g/cm³
Sag resistance (BS 5350-B9): 750 µm / 30 mils
60° Specular Gloss (ASTM D2457): 85 Gloss Units
VOC content (ASTM D2369 / EPA ref. 24): 0.16% / 2.46 g/L

Mix Ratio

Mixing Ratio by Weight (Base : Solidifier) 3.04 : 1
Mixing Ratio by Volume (Base : Solidifier) 2 : 1

Overcoat Window

Between an ambient temperature range of 5°C/41°F to 40°C/104°F, 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 40 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 which is enclosed with each packaged product.

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FLEXURAL PROPERTIES

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

Flexural Strength
76.2 MPa / 11,045 psi 20°C/68°F cure & test

Flexural Modulus
4,290 MPa / 6.22 x 10⁵ psi 20°C/68°F cure & test

HARDNESS

Shore D, Barcol & König Pendulum Hardness

The Shore D, Barcol and König Pendulum hardness, when determined in accordance with ASTM D2240, ASTM D2583 and ISO 1522 respectively, will typically be:

Shore D	Barcol (Model 935)	Barcol (Model 934-1)	König Pendulum (Seconds)
84	82	11	146

HEAT RESISTANCE

Heat Distortion Temperature (HDT)

When determined in accordance with ASTM D648, the HDT will typically be:

48°C / 118°F 20°C/68°F cure

IMPACT STRENGTH

Izod Impact

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

Reverse Notched:
6.9 kJ/m² / 80.2 J/m 20°C/68°F cure & test

Un-notched:
9.2 kJ/m² / 109.2 J/m 20°C/68°F cure & test

Falling Weight

The direct falling weight impact resistance when determined in accordance with ASTM D2794 on a 500 micron thickness sample, value will typically be

0.63 kg.m / 55.1 in.lbs 20°C/68°F cure & test

WEATHERING RESISTANCE

Artificial Weathering (Xenon Arc)

When tested in accordance with ISO 4892-2 (Xenon Arc), **Belzona 5721** will show no chalking or colour change following >1000 hours exposure.

Cyclic Aging (UV, Salt Spray and Low Temperature cycling)

When tested in accordance with ISO 12944-9, over a 25-week period, the combined **Belzona 5711** and **Belzona 5721** system when applied on GRP composite shows no significant signs of degradation.

SHELF LIFE

Separate base and solidifier components shall have a shelf life of 3 years from date of manufacture when stored in their original unopened containers 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 5721 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 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.

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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