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PRODUCT SPECIFICATION SHEET **BELZONA® 2141**

1. PRODUCT NAME

Belzona® 2141

A cavitation resistant elastomeric coating.

2. MANUFACTURER

Belzona Inc.,

2000 N.W. 88th Court
Miami, Florida 33172

Belzona Polymerics Ltd.,

Claro Road, Harrogate,
HG1 4AY, England.

3. PRODUCT DESCRIPTION

A two component, thixotropic consistency material designed for recoating applications involving cavitation and erosion.

Applications

Pipes
Pumps
Valves
Kort nozzles
Propellers
Rudders
Hydroelectric turbines

4. TECHNICAL DATA

Base Component

Appearance	Oil white viscous liquid
Density	1.06 - 1.09 g/cm ³
Viscosity	22,000 - 32,000 cps at 77°F (25°C)

Solidifier Component

Appearance	Paste
Color	Black
Gel strength	60 - 100 HF

• **Shelf Life:**

Separate base and solidifier components shall have a shelf life of at least 3 years when stored between 32°F (0°C) and 86°F (30°C).

• **Working Life:**

Will vary according to temperature. At 77°F (25°C) the usable life of mixed material is 13 minutes.

• **Coverage Rate:**

Applied at a thickness of 40 mil. (1 mm), each 750 gram unit will cover an area of 6.6 sq.ft. (0.61 sq.m.).

• **Volume Capacity:**

37.2 cu.in. (610 cc) per 750 gms.

• **Cure Time:**

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

5. PHYSICAL/MECHANICAL PROPERTIES

Determined after 7 days cure at 77°F (25°C).

• **Abrasion Resistance:**

Taber

The Taber abrasion resistance with 1 kg load is typically:

H18 Wheels (Wet) at 70°F (21°C) loss per 1000 cycles	39 mm ³
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H18 Wheels (Dry) at 70°F (21°C) loss per 1000 cycles	50 mm ³
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• **Adhesion:**

When tested in accordance with ASTM D429 typical values obtained will be:
Mild steel ASTM D429
180 pli (3214 kgs/m)

A Surface Conditioner is required to achieve adhesion.

• **Elongation:**

Tested in accordance with ASTM D412 (Die C) is typically 530%.

• **Heat Resistance:**

For many typical applications the product is suitable for operation in the temperature range -40°F to 150°F (-40°C to 65°C).

• **Sag Resistance:**

> 50 mil. (1.25 mm)

• **Shore A Hardness:**

Tested in accordance with ASTM D2240 is 87.

• **Tear Strength:**

Tested in accordance with ASTM D624 is typically 380 pli. (6786 kgs per metre).

• **Tensile Strength:**

Tested in accordance with ASTM D412 (Die C) is typically 2200 psi (155 kgs/cm²).

CURE TIMES

TEMPERATURE	41°F (5°C)	50°F (10°C)	59°F (15°C)	68°F (20°C)	77°F (25°C)	86°F (30°C)
Movement or use involving no loading or immersion	6 hrs	4 hrs	3 hrs	2 hrs	1 1/2 hrs	1 hr
Full mechanical or thermal loading	3 days	2 days	2 days	1 day	1 day	1 day
Immersion in chemicals	5 days	3 1/2 days	3 days	2 1/2 days	2 days	1 1/2 days

6. SURFACE PREPARATION AND APPLICATION PROCEDURES

For proper technique, refer to the Belzona Instructions For Use leaflet which is enclosed with each packaged product.

7. AVAILABILITY AND COST

Belzona® 2141 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.

8. WARRANTY

Belzona® guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the Belzona® Instructions For Use leaflet. Belzona® further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognised standards (ASTM, ANSI, BS, DIN, etc.). Since Belzona® has no control over the use of the product described herein, no warranty for any application can be given.

9. TECHNICAL SERVICES

Complete technical assistance is available and includes fully trained Technical Consultants, technical service personnel and fully staffed research, development and quality control laboratories.

10. HEALTH AND SAFETY

Prior to using this material, please consult the relevant Material Safety Data Sheets.

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BS EN ISO 9002 : 1994
Certificate No. Q/09335



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