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PRODUCT SPECIFICATION SHEET

BELZONA® 3131

1. PRODUCT NAME

Belzona® 3131

(Weather Tolerant Membrane)

For preventive maintenance and repairs on almost all types of roofs, even in inclement weather and at low temperatures.

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 single component formulated solvent based moisture activated urethane. It is used in conjunction with **Belzona® 3931** Conditioner on porous surfaces and **Belzona® 3921** (GSC Surface Conditioner) on glass and metallic surfaces. **Belzona® 9361** is used to reinforce general roof areas and **Belzona® 9351** is used where exceptional elasticity is required.

This liquid base binds to the reinforcing sheet to form a tough, flexible and elastic polymeric film which can tightly follow all roof contours. The system provides long term weatherproofing and water-proofing of almost all types of roof substrate and offers excellent protection against infra-red and ultra-violet radiation, and natural and industrial pollutants. It is impermeable to liquid water, but permeable to water vapor, thus allowing a moist roof to breathe. **Belzona® 3131** will also cure down to 32°F (0°C), and is resistant to rain "wash-out".

The system is ideally suited for applications to:

Gutters
Parapet Walls
Glazing Bars
Joints
Seams
Flashings
Ponded Areas
Flat Roof Areas
Complex Roofs and Domes

4. TECHNICAL DATA

A one component product.

Appearance	Thixotropic liquid
Color	Available in Light Gray and Slate Gray
Odor	Strong solvent
Density	1.20 - 1.22 g/cm ³
Volatile by volume	22 %

• Shelf Life:

When stored in unopened containers between 41°F (5°C) and 86°F (30°C), this material is expected to have a shelf life of at least 12 months.

• Usable Life:

At temperatures between 41°F (5°C) and 86°F (30°C) this material will have an almost indefinite usable life. However, because **Belzona® 3131** is moisture-activated, opened containers should not be left overnight or skinning will occur.

• Drying Time:

The system will be touch dry and overcoatable within 5 hours, and resistant to rain "wash-out" immediately.

• VOC Content:

200 gms/litre

• Coverage Rates:

The first layer is applied to a dry film thickness of 20 mil (500 micron). This dry film thickness measurement includes the synthetic reinforcing sheet. The second layer should be applied to a dry film thickness of 10 mil (250 micron), giving an overall film thickness of approximately 30 mil (750 micron). As a practical guide, the coverage rates listed in the chart below should be obtained.

5. PHYSICAL / MECHANICAL PROPERTIES

• Elongation at Break:

The elongation of the reinforced system after 7 days cure at 68°F (20°C) when tested against BS 2782 or similar test method is typically 190%.

• Tear Strength:

The tear strength of the reinforced system after 7 days cure at 68°F (20°C) is typically 210 pli (36.9 N/mm).

• Tensile Strength:

The tensile strength of the reinforced system after 7 days at 68°F (20°C) when tested against BS 2782 or similar test method is typically 900 psi (6.2 N/mm²).

• Water Vapor Permeability:

The water vapor permeability of the reinforced system after 7 days cure at 68°F (20°C) is typically 30 grams per square meter per 24 hours at 68°F(20°C).

• Weathering Resistance:

After 3 months exposure to QUV accelerated weathering (ASTM G53), **Belzona® 3131** typically retains 125% elongation.

COVERAGE RATES OF BELZONA® 3131 (per liter)

Substrate	First Layer	Second Layer
Concrete/Brick	10.3 sq.ft. (0.96 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Breeze block	8.6 sq.ft. (0.8 sq.m.)	22.0 sq.ft. (2.0 sq.m.)
Asphalt	16.1 sq.ft. (1.50 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Smooth Felt/Bitumen	16.1 sq.ft. (1.50 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Mineral Felt/Small Chippings	10.3 sq.ft. (0.96 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Galvanized Steel	16.1 sq.ft. (1.50 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Metals	16.1 sq.ft. (1.50 sq.m.)	33.0 sq.ft. (3.0 sq.m.)
Recoating Belzona® 3111 or Belzona® 3131	16.1 sq.ft. (1.50 sq.m.)	33.0 sq.ft. (3.0 sq.m.)

6. SURFACE PREPARATION AND APPLICATION PROCEDURES

To ensure good adhesion, the substrate must be treated with **Belzona® 3931** or **Belzona® 3921** as appropriate prior to the application of the **Belzona® 3131**. The exception being bituminous surfaces which require no Conditioner. For proper technique, refer to the Belzona® Instructions For Use Leaflet which is enclosed with each packaged product.

7. AVAILABILITY AND COST

Belzona® 3131 is available from Belzona Polymerics Ltd., in the U.K. only. For information, consult the Belzona Consultant 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 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 recognized 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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