



## INSTRUCTIONS FOR USE

### 1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

#### APPLY ONLY TO STRUCTURALLY SOUND SURFACES

- a) Remove mineral chippings of 1/4 in. (6mm) or more and sweep the area clean before proceeding to (b).
- b) All surfaces should be made clean, dry and firm. Cut out blisters and bulges in asphalt. Treat substrates where moss, lichens and vegetation have been removed with **Belzona® 9421** (Fungicidal Wash), Nuodex or similar applied to the manufacturers' instructions to kill off residual spores.
- c) Degrease all metals and glass with **Belzona® 9111** (Cleaner/Degreaser) or any other effective cleaner which does not leave a residue, eg. methyl ethyl ketone (MEK). Wash all non-porous surfaces with a mild detergent solution and allow to dry before commencing application.
- d(i) ROOFING FELT, ASPHALT or OTHER BITUMINOUS SURFACES  
No Conditioner is required. **Belzona® 3131** may be applied directly onto the prepared substrate.
- d(ii) BRICK, CONCRETE or OTHER POROUS SURFACES  
Condition with **Belzona® 3931**. Shake the unit and then brush the **Belzona® 3931** well into the surface, not exceeding the coverage rates shown. Allow to become touch dry (1 - 4 hours depending on weather conditions) before applying **Belzona® 3131**. Under no circumstances should the **Belzona® 3931** be left longer than 2 days\* before overcoating with **Belzona® 3131**.
- d(iii) GLASS, SLATE, LEAD, COPPER, ALUMINIUM and other NON-POROUS SURFACES EXCEPT PLEXIGLASS AND OTHER PLASTICS  
Condition with **Belzona® 3921** (GSC Surface Conditioner) which is supplied in 2 parts, Base and Solidifier. Stir the contents of the Base can until smooth and then add the entire contents of the Solidifier can, stirring continuously to achieve an even color and smooth consistency. Use mixed material within 48 hours, as after this time it will begin to solidify. For mixing small quantities, use a ratio of 5 parts of Base to 2 parts of Solidifier by volume. Brush the **Belzona® 3921** well into the surface, not exceeding the recommended coverage rate. Leave for at least 16 hours but no longer than 2 days\* before overcoating with **Belzona® 3131**.

d(iv) REFURBISHMENT OF EXISTING **BELZONA® 3131** OR **BELZONA® 3111** (FLEXIBLE MEMBRANE)

Wash down with water to remove all surface dirt before applying **Belzona® 3131** directly.

- e) Clean brushes immediately after use with a suitable solvent such as **Belzona® 9121**, MEK, acetone or cellulose thinners.

\* If these times are exceeded, a further application of the relevant Surface Conditioner should be made before applying the **Belzona® 3131**.

### 2. APPLYING **BELZONA® 3131**

Apply **Belzona® 3131** as a two coat system incorporating reinforcing sheet in the first layer. Application is best achieved using simulated sheepskin (not foam) rollers on large areas and brushes on detail work. Use **Belzona® 9361** reinforcing sheet on general roof areas. Use **Belzona® 9351** reinforcing sheet on problem areas where exceptional elasticity is required.

#### FIRST LAYER

Lay **Belzona® 9361** flat on the roof surface. Apply **Belzona 3131**, within the coverage rates quoted in Section 4, through the sheet, working from the centre outward to ensure complete wetting and to avoid air entrapment and creases.

Overlap sheet by at least 0.5in. (12.5mm)

#### SECOND LAYER

Apply the second coat of **Belzona® 3131** as soon as it is possible to do so without disturbing the first layer, preferably within 48 hours. Ensure coverage rates in Section 4 are observed.

#### NOTES:

##### 1. APPLICATION IN HOT WEATHER

**Belzona® 3131** may sag slightly if applied to vertical surfaces in hot weather, hence it is recommended that **Belzona® 3111** is used at such times.

##### 2. BRIDGING JOINTS AND CRACKS

Use plastic backed adhesive tape (minimum 75 mm. width) to bridge joints in gutters, expansion cracks on flat roofs or any other surface irregularities, to provide a smooth surface.

### 3. COMPLETION OF THE MOLECULAR REACTION

**Belzona® 3131** is water resistant a short while after application, but the times taken to develop ultimate adhesive and mechanical properties are given below:

| Ambient Temperature                 | 68°F (20°C) | 50°F (10°C) | 32°F (0°C) |
|-------------------------------------|-------------|-------------|------------|
| Time to develop ultimate properties | 7 days      | 15 days     | 30 days    |

### 4. COVERAGE RATES

Theoretical Coverage Rates

**Belzona® 3931** - 194 sq.ft. (18 sq.m.)/liter at 1 mil d.f.t.  
**Belzona® 3921** - 90 sq.ft. (8.4 sq.m.)/kg at 1 mil d.f.t.  
**Belzona® 3131** 1st Layer - 17 sq.ft. (1.6 sq.m.)/liter at 20 mil (500 microns) d.f.t.  
**Belzona® 3131** 2nd Layer - 34 sq.ft. (3.2 sq.m.)/liter at 10 mil (250 microns) d.f.t.

These coverage rates can be achieved on smooth surfaces. In practice, many factors influence the exact figure achieved. Practical coverage rates are quoted below.

|                                          | Surface Conditioner        |                          | Belzona® 3131 (Reinforced System) |                          |
|------------------------------------------|----------------------------|--------------------------|-----------------------------------|--------------------------|
|                                          | Belzona® 3931 Per Liter    | Belzona® 3921 Per Kg     | 1st Layer Per Liter               | 2nd Layer Per Liter      |
| New Asbestos Cement                      | 180.0 sq.ft.<br>16.7 sq.m. |                          | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0sq.m.  |
| Old Asbestos Cement                      | 90.0 sq.ft.<br>8.4 sq.m.   |                          | 12.05 sq.ft.<br>1.12 sq.m.        | 33.0 sq.ft.<br>3.0 sq.m. |
| Concrete/Brick                           | 80.0 sq.ft.<br>7.4 sq.m.   |                          | 10.3 sq.ft.<br>0.96 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Breeze Block/Tyroleam                    | 45.0 sq.ft.<br>4.2 sq.m.   |                          | 8.6 sq.ft.<br>0.8 sq.m.           | 22.0 sq.ft.<br>2.0 sq.m. |
| Asphalt                                  | No Conditioner required    |                          | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Smooth Felt/Bitumen                      | No Conditioner required    |                          | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Mineral Felt/Small Chippings             | No Conditioner required    |                          | 10.3 sq.ft.<br>0.96 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| De-chipped Surfaces (1)                  | No Conditioner required    |                          | 10.3 sq.ft.<br>0.96 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Glazing Bars (Wood)                      |                            | 50.0 sq.ft.<br>4.6 sq.m. | 10.3 sq.ft.<br>0.96 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Glazing Bars (Metal)                     |                            | 80.0 sq.ft.<br>7.4 sq.m. | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Slate                                    |                            | 50.0 sq.ft.<br>4.6 sq.m. | 8.6 sq.ft.<br>0.8 sq.m.           | 24.0 sq.ft.<br>2.2 sq.m. |
| Galvanized Steel                         |                            | 70.0 sq.ft.<br>6.5 sq.m. | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Non-Ferrous Metals                       |                            | 80.0 sq.ft.<br>7.4 sq.m. | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Iron or Steel                            |                            | 60.0 sq.ft.<br>5.6 sq.m. | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |
| Recoating Belzona® 3131 or Belzona® 3111 | No Conditioner required    |                          | 16.1 sq.ft.<br>1.50 sq.m.         | 33.0 sq.ft.<br>3.0 sq.m. |

(1) Large chippings, if not removed, will substantially reduce the coverage rates given above.

### HEALTH & SAFETY INFORMATION

Please read and make sure you understand the relevant Material Safety Data Sheets.

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Printed in England Publication No. 45-7-01

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BS EN ISO 9002 : 1994  
Certificate No. Q09335



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