

Belzona 3111

FN10205



INSTRUCTIONS FOR USE

1. Substrate Preparation

APPLY ONLY TO STRUCTURALLY SOUND SURFACES

- a) Remove mineral chippings of ¼ in. (6 mm) 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 a fungicidal wash (e.g. Nuodex or similar) applied to the manufacturers' instructions to kill off residual spores.
- c) Degrease galvanized steel and glass with **Belzona 9111** (Cleaner/Degreaser) or any other effective cleaner which does not leave a residue, e.g., methyl ethyl ketone (MEK). Wash all non-porous surfaces with a mild detergent solution and allow to dry before commencing application.
- d) Timber (excluding glazing bars) and insulation boards should be overlaid with a fully bonded layer of felt before coating with the **Belzona 3111** system.

e(i) ROOFING FELT, ASPHALT, BRICK, CONCRETE and OTHER POROUS OR BITUMINOUS SURFACES.

Condition with **Belzona 3911** (PSC Surface Conditioner). Shake the unit and then brush the **Belzona 3911** well into the surface, not exceeding the coverage rates shown. Allow to become touch dry (30 minutes - 4 hours depending on weather conditions) before applying **Belzona 3111**. Under no circumstances should the **Belzona 3911** be left longer than 2 days* before overcoating with **Belzona® 3111**.

e(ii) GLASS, SLATE, LEAD, COPPER, ALUMINIUM and other NON-POROUS SURFACE EXCEPT PLEXIGLAS 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 7 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 4 hours but no longer than 2 days* before overcoating with **Belzona 3111**.

* If these times are exceeded, a further application of the relevant Surface Conditioner should be made before applying the **Belzona 3111**.

e(iii) Refurbishment of existing **Belzona 3111**.

Wash down with water to remove all surface dirt before conditioning with **Belzona 3921**, as before, and applying **Belzona 3111**.

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

2. APPLYING BELZONA 3111

DO NOT APPLY WHEN:

- i) There is a risk of rain, snow, fog, or frost.
- ii) Surface temperature is 41 °F (5 °C) and falling, or relative humidity rises above 80%.
- iii) A combination of high relative humidity and low temperature occurs.
- iv) Any of the above conditions is likely to occur within 45 minutes.

APPLICATION EQUIPMENT

- a) Soft bristled brush
- b) Roller
- c) Airless Spray:
Tip pressure (minimum) **2000 psi (142 bar)**
Tip size (minimum) **23 thou (0.57mm)**
Cleaning **Water**
Note: **Remove filters**

JOINTS, CRACKS, AND PROBLEM AREAS

Any unstable areas in the roof must be repaired prior to the application. Use plastic backed adhesive tape to bridge joints in gutters, expansion cracks on flat roofs or any other surface irregularities, to provide a smooth surface.

A fully reinforced two-coat system must be applied at problem areas such as joints and seams, gutters, flashings and glazing bars, areas subject to occasional ponded water or pedestrian traffic.

- a) Apply **Belzona 3111** with a soft bristled brush over the conditioned area while embedding **Belzona 9311 (reinforcing Sheet)**. Allow to dry thoroughly (2 - 6 hour), but not longer than 5 days before applying the second coat.

In areas subject to standing water, allow the first coat of **Belzona 3111** to dry for a minimum of 24 hours. In no instance must more than 5 days elapse before application of the second coat. Should this occur, treat the surface with **Belzona 3921** prior to applying the second coat of **Belzona 3111**. Where **Belzona 3111** white is being used, two coats will be required to obliterate the color of **Belzona 3921**.

- b) Apply the second coat of **Belzona 3111** to give a smooth finish, free from pinholes, at the quoted coverage rate, not exceeding a total DFT of 20 mil.

- c) Clean brushes with cold water immediately after use.

- d) If, during the 24 hours following application of the second layer, rainfall causes standing water, sweep this clear to minimize any blistering between the layers. Cut out any blisters and treat affected areas with a two-coat reinforced system, as detailed above.

SOUND FLAT SURFACES

On inclined or stable roof surfaces, which are not subject to pedestrian traffic, two coat unreinforced applications are acceptable.

- Fix the details according to instructions for **JOINTS, CRACKS, AND PROBLEM AREAS**
- Apply **Belzona 3111**, allow to dry thoroughly (2 - 6 hours), but not longer than 5 days before applying the second coat.
- Apply the second layer of **Belzona 3111** to give a smooth finish, free from pinholes, at the quoted coverage rate, not exceeding a total DFT of 20 mil.
- Clean tools immediately after use with cold water.
- If, during the 24 hours following application of the second layer, rainfall causes standing water, sweep this clear to minimize any blistering between the layers. Cut out any blisters and treat affected areas with a two-coat reinforced system, as detailed above.

DRYING TIMES

Under good drying conditions **Belzona 3111** will be water resistant 60 min after application, but under cold or humid conditions, this time will be extended. Suggested overcoat time is 2-6 hours depending on drying conditions.

3. COVERAGE RATES

Theoretical Coverage Rates

Belzona 3911 - 110 ft² (10.2 m²)/L at 1 mil DFT
Belzona 3921 - 67 ft² (6.3 m²)/kg at 1.3 mil DFT

Belzona 3111
 1st. Layer - 22 ft² (2.0 m²)/L at 10 mil DFT

Belzona 3111
 2nd. Layer - 36 ft² (3.4 m²)/L at 6.0 mil DFT

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

Practical coverage rates are quoted below.

Substrate	Surface Conditioner		Belzona 3111 (Reinforced System)	
	Belzona 3911 per Liter	Belzona 3921 per kg	1 st . Layer per Liter	2 nd . Layer per Liter
Old Asbestos Cement	50.0 ft ² 4.6 m ²		16.0 ft ² 1.5 m ²	33.0 ft ² 3.0 m ²
Plaster/Wood	75.0 ft ² 7.0 m ²		19.0 ft ² 1.7 m ²	33.0 ft ² 3.0 m ²
Concrete/Brick	45.0 ft ² 4.2 m ²		14.0 ft ² 1.3 m ²	33.0 ft ² 3.0 m ²
Breeze Block/Tyroleam	25.0 ft ² 2.3 m ²		11.0 ft ² 1.0 m ²	22.0 ft ² 2.0 m ²
Asphalt	100.0 ft ² 9.3 m ²		21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Smooth Felt/Bitumen	75.0 ft ² 7.0 m ²		21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Mineral Felt/Small Chippings	45.0 ft ² 4.2 m ²		14.0 ft ² 1.3 m ²	33.0 ft ² 3.0 m ²
De-chipped Surfaces (1)	25.0 ft ² 2.3 m ²		14.0 ft ² 1.3 m ²	33.0 ft ² 3.0 m ²
Glazing Bars (Wood)		38.0 ft ² 3.5 m ²	14.0 ft ² 1.3 m ²	33.0 ft ² 3.0 m ²
Glazing Bars (Metal)		60.0 ft ² 5.6 m ²	21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Slate		38.0 ft ² 3.5 m ²	12.0 ft ² 1.1 m ²	24.0 ft ² 2.2 m ²
Galvanized Steel		54.0 ft ² 5.0 m ²	21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Non-Ferrous Metals		60.0 ft ² 5.6 m ²	21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Iron or Steel		45.0 ft ² 4.2 m ²	21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²
Recoating Belzona 3111		60.0 ft ² 5.6 m ²	21.0 ft ² 1.9 m ²	33.0 ft ² 3.0 m ²

(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 Safety Data Sheets.

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