

# Belzona 3111

FN10205



## INSTRUCTIONS FOR USE

### 1. Substrate Preparation

#### APPLY ONLY TO STRUCTURALLY SOUND SURFACES

- a) Remove mineral chippings of ¼ 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 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**.
- 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.

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

### 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 hours), but not longer than 5 days before applying the second coat.
- b) 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 mils.
- c) Clean brushes immediately after use with cold water.
- 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 mils.
- 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 sq.ft. (10.2 sq.m.)/liter at 1 mil d.f.t.

**Belzona® 3921** - 67 sq.ft. (6.3 sq.m.)/kg at 1.3 mil d.f.t.

**Belzona® 3111**

1st Layer - 22 sq.ft. (2.0 sq.m.)/liter at 10 mils d.f.t.

**Belzona® 3111**

2nd Layer - 36 sq.ft. (3.4 sq.m.)/liter at 6.0 mils 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® 3111 (Reinforced System)	
	Belzona® 3911 Per Liter	Belzona® 3921 Per Kg	1st Layer Per Liter	2nd Layer Per Liter
Old Asbestos Cement	50.0 sq.ft. 4.6 sq.m.		16.0 sq.ft. 1.5 sq.m.	33.0 sq.ft. 3.0 sq.m.
Plaster/Wood	75.0 sq.ft. 7.0 sq.m.		19.0 sq.ft. 1.7 sq.m.	33.0 sq.ft. 3.0 sq.m.
Concrete/Brick	45.0 sq.ft. 4.2 sq.m.		14.0 sq.ft. 1.3 sq.m.	33.0 sq.ft. 3.0 sq.m.
Breeze Block/ Tyrolean	25.0 sq.ft. 2.3 sq.m.		11.0 sq.ft. 1.0 sq.m.	22.0 sq.ft. 2.0 sq.m.
Asphalt	100.0 sq.ft. 9.3 sq.m.		21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Smooth Felt/ Bitumen	75.0 sq.ft. 7.0 sq.m.		21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Mineral Felt/ Small Chippings	45.0 sq.ft. 4.2 sq.m.		14.0 sq.ft. 1.3 sq.m.	33.0 sq.ft. 3.0 sq.m.
De-chipped Surfaces (1)	25.0 sq.ft. 2.3 sq.m.		14.0 sq.ft. 1.3 sq.m.	33.0 sq.ft. 3.0 sq.m.
Glazing Bars (Wood)		38.0 sq.ft. 3.5 sq.m.	14.0 sq.ft. 1.3 sq.m.	33.0 sq.ft. 3.0 sq.m.
Glazing Bars (Metal)		60.0 sq.ft. 5.6 sq.m.	21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Slate		38.0 sq.ft. 3.5 sq.m.	12.0 sq.ft. 1.1 sq.m.	24.0 sq.ft. 2.2 sq.m.
Galvanized Steel		54.0 sq.ft. 5.0 sq.m.	21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Non-Ferrous Metals		60.0 sq.ft. 5.6 sq.m.	21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Iron or Steel		45.0 sq.ft. 4.2 sq.m.	21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 3.0 sq.m.
Recoating Belzona® 3111		60.0 sq.ft. 5.6 sq.m.	21.0 sq.ft. 1.9 sq.m.	33.0 sq.ft. 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 Safety Data Sheets.

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