Belzona 5131

(EG-CLADDING)

BELZONA®
Repair • Protect • Improve

INSTRUCTIONS FOR USE

1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

APPLY ONLY TO STRUCTURALLY SOUND SURFACES

SURFACE PREPARATION

a) Make good badly deteriorated pointing in brick and stonework.

b) Remove areas of spalled concrete and rebuild using a suitable material.

c) Any hollow or unsecured cement rendering located by hammer tapping should be removed and replaced by new rendering.

d) Al l surfaces must be made clean and firm by grit blasting or water blasting, scraping, or wire brushing to remove all lichen, moss, flaking paint and powdery surface deposits. Sand down any firm paintwork and remove all dust.

e) Treat substrates where moss and lichens have been removed with a suitable fungicidal wash applied to the manufacturer's instructions, to kill off residual spores.

CONDITIONING

a) Interior Walls

On previously uncoated porous substrates it is not necessary to use **Belzona® 3911** (PSC Conditioner). Where the substrate has already been painted it may also not be necessary to utilize the **Belzona® 3911**, but the surface should be lightly abraded and a trial carried out to ascertain the degree of adhesion of the **Belzona® 5131**, prior to progressing with the application. Always condition ferrous and non-porous substrates with **Belzona® 3921** (GSC Surface Conditioner), as detailed opposite.

On previously untreated plaster, one coat of **Belzona® 3911** must always be applied prior to overcoating with **Belzona® 5131**.

b) Exterior Walls

Porous substrates

Brush apply **Belzona® 3911** which is supplied ready for use. Shake the unit and then brush well into the surface, taking care not to exceed the coverage rates indicated in Section 3. Allow to become touch dry (30 minutes - 4 hours depending on weather conditions) before applying **Belzona® 5131**. Under no circumstances should the **Belzona® 3911** be left for longer than 2 days before overcoating with **Belzona® 5131**. If this time is exceeded a further coat of **Belzona® 3911** should be applied.

Non-Porous substrates

Condition with **Belzona® 3921** which is supplied in 2 parts, Base and Solidifier. Stir the entire contents of the Base tin until smooth and then add the entire contents of the Solidifier tin, 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 7 parts by volume of Base to 2 parts by volume of Solidifier. Brush the **Belzona® 3921** well into the surface, not exceeding the recommended coverage rate. Do not overcoat for at least 4 hours but do not leave longer than 2 days before overcoating with **Belzona® 5131**.

2. APPLICATION OF BELZONA® 5131

DO NOT apply during or when there is a risk of RAIN, SNOW, FOG or FROST, or when the relative humidity rises above 80%, or the surface temperature is 5°C and falling. In addition, situations involving a combination of high relative humidity and low temperature will result in the rate of drying being dramatically retarded and application under such conditions should be avoided.

a) **BRUSH APPLICATION**

i) Apply the first coat of **Belzona® 5131** with a soft bristled, good quality brush over a previously conditioned area, taking care not to exceed the coverage rates indicated in Section 3. Leave for at least 2 - 4 hours but no longer than 7 days before overcoating with second layer of **Belzona® 5131.**

ii) Apply the second layer of **Belzona® 5131** giving a smooth finish, free from pinholes, not exceeding the quoted coverage rates.

iii) Clean brushes and equipment immediately after use with cold water.

b) **ROLLER APPLICATION**

As an alternative to application by brush, the material may be applied using a lambswool roller. Using this technique, a textured finish will be achieved or alternatively, the roller applied material may subsequently be laid off with a brush to give a smooth finish.

NOTES:

1. TO MAXIMIZE THERMAL INSULATING PROPERTIES

The degree of insulation which the **Belzona® 5131** will confer is related to the thickness of the applied film. Although two coats of material applied at the recommended coverage rate will have a dramatic effect, an even greater degree of insulation will be obtained if more coats are applied. Where multicoat applications are being carried out, the previous layer shall be allowed to dry thoroughly (normally a minimum of 2 - 4 hours) before overcoating and never left for longer than 7 days without re-conditioning.

2. BRIDGING JOINTS AND CRACKS

Belzona® 5131 will bridge and seal hairline cracks (up to 2mm) but any wider cracks should first be sealed with **Belzona® 9311** (Reinforcing Sheet) and **Belzona® 5131**. Lay out the **Belzona® 9311** over the previously conditioned area and brush apply the **Belzona® 5131**. Smooth over with the brush to ensure complete wetting and leave a finish free from creases. Allow to dry thoroughly before overcoating as above. Wider cracks should be "Vee'd" out and filled with **Belzona® 4141** (Magma-Build) prior to conditioning and application of the two coat reinforced **Belzona® 5131** System.

3. UNEVEN FINISH

If an uneven finish results from overbrushing, this can be overcome by lightly brushing over the partially dried area with a clean, wet, soft bristled brush.

4. DRYING TIME

Belzona® 5131 applied to exterior walls, under good drying conditions, will be water resistant within 30 minutes of application. UNDER COLD, STILL OR HUMID CONDITIONS, OR WHEN APPLIED TO INTERIOR WALLS, THIS TIME WILL BE SIGNIFICANTLY EXTENDED, AND THERE WILL BE AN ASSOCIATED EXTENSION TO THE TIME AT WHICH THE COATING BECOMES WATER RESISTANT.

5. THINNING

In warm, dry or windy conditions, it may be necessary to thin the **Belzona® 5131** by the addition of clean water, up to a maximum of 5% by volume. Add water slowly while continuously stirring the **Belzona® 5131**.

Belzona® 3911 and **Belzona® 3921** may also require thinning in warm, dry, windy conditions by the addition of **Belzona® 9121** (Universal Thinners) up to a maximum of 10% by volume. The purpose of thinning is as an aid to application and the standard coverage rates should be followed, regardless of whether or not thinning takes place.

3. COVERAGE RATES

The coverage rates of **Belzona® 3911** and **Belzona® 3921** are critically dependent on the nature of the substrate, being affected principally by surface profile and absorbency, although other factors such as climatic conditions, skill and experience of the applicator, practicability and accessibility may influence the exact figure obtained. The table below is a guide to the practical coverage rates which should be obtained.

Once the surface has been sealed by the **Belzona® Surface Conditioner** the nature of the substrate has a less significant effect on the Coverage Rate of the **Belzona® 5131**, although surface profile clearly has a marked effect. The practical coverage rates given in the table below are a guide to those which should be aimed for in order to achieve the recommended dry film thickness of 6 - 8 mil (150 - 200 microns).

Product Substrate	Belzona® 3911 per litre	Belzona® 3921 per kg	1st coat Belzona® 5131 per litre	2nd coat Belzona® 5131 per litre
New Asbestos Sheeting	9.3 m² 100.0 sq.ft.		4.0 m² 43.0 sq.ft.	6.0 m² 64.0 sq.ft.
Old Asbestos Sheeting	4.6 m² 50.0 sq.ft.		3.0 m² 32.0 sq.ft.	4.0 m² 43.0 sq.ft.
Breeze Block / Tyrolean	2.3 m² 25.0 sq.ft.		3.0 m² 32.0 sq.ft.	4.0 m² 43.0 sq.ft.
Concrete	4.2 m² 45.0 sq.ft.		4.0 m² 43.0 sq.ft.	4.0 m² 43.0 sq.ft.
Rough Brick	3.5 m² 37.5 sq.ft.		3.0 m² 32.0 sq.ft.	4.0 m² 43.0 sq.ft.
Smooth Brick	6.0 m² 64.5 sq.ft.		4.0 m² 43.0 sq.ft.	5.0 m² 54.0 sq.ft.
Cement Rendering	5.0 m² 54.0 sq.ft.		4.0 m² 43.0 sq.ft.	5.0 m² 54.0 sq.ft.
Unpainted Plaster	8.0 m² 86.0 sq.ft.		4.0 m² 43.0 sq.ft.	6.0 m² 64.0 sq.ft.
Stone	4.5 m² 48.5 sq.ft.		4.0 m² 43.0 sq.ft.	4.0 m² 43.0 sq.ft.
Galvanized Steel		6.5 m² 70.0 sq.ft.	5.0 m² 54.0 sq.ft.	6.0 m² 64.0 sq.ft.
Non-Ferrous Metals		7.4 m² 80.0 sq.ft.	5.0 m² 54.0 sq.ft.	6.0 m² 64.0 sq.ft.
Iron or Steel		5.6 m² 60.0 sq.ft.	5.0 m² 54.0 sq.ft.	6.0 m² 64.0 sq.ft.
Belzona® 5131	8.5 m² 92.5 sq.ft.		5.0 m² 54.0 sq.ft.	6.0 m² 64.0 sq.ft.

Note: Always verify actual Coverage Rates with the first unit applied.

HEALTH & SAFETY INFORMATION

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

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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