



BELZONA® 5161 (WB WALL CLADDING)

INSTRUCTIONS FOR USE

1. TO ENSURE AN EFFECTIVE BOND

APPLY ONLY TO STRUCTURALLY SOUND SURFACES

- Remove all flaking paint and weak surface material by scraping, wire brushing or mechanical abrasion.
- Belzona® 5161** being water based can be applied to existing paint surfaces without softening or bleed, but abrade any glossy surfaces to roughen the surface.
- Allow new concrete to cure for 28 days minimum or until the moisture content is below 6% using a Protimeter. Remove any surface laitence by mechanical means or wire brushing.
- Allow newly applied plaster to dry out until the moisture content is below 12% using a Protimeter. Tiled surfaces should be thoroughly cleaned to remove all traces of grease, fat and other surface contamination.
- All loose adherent and flaking rust should be removed by scraping and wire brushing, wherever possible with the aid of mechanical equipment, until a firm edge is obtained.
- Vacuum clean all loose dust produced by surface preparation techniques with an efficient industrial vacuum.
- Thoroughly clean existing surfaces which are contaminated by chemicals, grease, dirt, etc., with detergent or a suitable industrial or household cleaning fluid, and then thoroughly wash down with clean water to remove all residues.
- Remove bacterial or fungal growth by normal cleaning methods and treat the surface with a suitable fungicidal wash to kill residual spores.

NOTE

Steel surfaces should receive a coat of **Belzona® 6241** before the **Belzona® 5161** is applied.

Porous surfaces, apart from glazed tiles should receive a coat of **Belzona® 5971** (WB Wall Conditioner) before the **Belzona® 5161** is applied. On glazed tiles, the **Belzona® 5971** should be replaced by a coat of **Belzona® 5161** to act as the conditioning coat.

2. CONDITIONING

2.1 BELZONA® 5971 / 6241

FOR BEST RESULTS

Do not apply when:

- The temperature is below 50°F (10°C) or the relative humidity is above 80%.
- Rain, snow, fog or mist is present.
- There is moisture on the surface or is likely to be deposited by subsequent condensation.
- The working environment is likely to be contaminated by oil/grease from adjacent equipment or smoke from kerosene heaters or tobacco smoking.
- There is insufficient local air circulation.

a) MIXING

Stir the Base and Solidifier well before use. Add entire contents of solidifier unit to the Base unit and stir thoroughly until an even consistency is achieved.

b) APPLICATION

Only apply when the temperature is above 10°C (50°F) and the relative humidity is less than 80%. Apply the mixed Conditioner by brush or short nap roller to the prepared substrate to achieve the required coverage rate. It may be necessary to thin with up to a maximum of 10% water to aid application and to achieve the recommended coverage rates.

2.2 TECHNICAL DATA

	Belzona® 5971	Belzona® 6241
Mixing Ratio By Volume	Base : Solidifier 1 : 1	Base : Solidifier 1 : 1
Usable Life After Mixing at 20°C	1-1½ hours	1-1½ hours
Film Thickness Wet Dry	76 microns (3 mils) 38 microns (1½ mils)	150 microns (6 mils) 75 microns (3 mils)
Theoretical coverage rate per litre	12 sq. m.	5.7 sq. m.
Average Practical Coverage Rates (2)		
Steel	-	5 sq. m.
Smooth Plaster	5.8 sq. m.	-
Smooth Concrete	10 sq. m.	-
Min. overcoating time Max. overcoating time	8 hours 24 hours	2 hours 24 hours

2.2 GLAZED TILES

- a) These must be conditioned with a coat of **Belzona® 5161** applied as in Section 3.
- b) On to glazed tiles the recommended thickness is 150 microns wet, and 75 microns dry, which is achieved by a coverage rate of 6.7 sq.m./litre.
- c) The **Belzona® 5161** should be allowed to cure as follows:-

Minimum overcoat time	4 hours
Maximum overcoat time	24 hours

3. BELZONA® 5161 (WB WALL CLADDING)

- a) **MIXING**
Stir the Base and Solidifier well before use. Add entire contents of Solidifier unit to the Base unit and stir thoroughly until an even consistency is achieved.

NOTES

1. The mixed **Belzona® 5161** will have a useable life of 1-1½ hours at 20°C.

2. MIXING SMALL QUANTITIES

For mixing small quantities of **Belzona® 5161** use:
1 part Base : 1 part Solidifier by volume

b) APPLICATION

Local air circulation during the entire application is vital to encourage drying and to avoid extended drying times/ matting effects caused by water entrapment.

1. Unreinforced System

Apply the mixed **Belzona® 5161** by short nap roller to the prepared and conditioned substrate to achieve the recommended coverage rate. Only apply when the temperature is above 10°C and the relative humidity is less than 80%.

First Coat

On a smooth surface, previously conditioned with either **Belzona® 5971**, **Belzona® 6241** or **Belzona® 5161**, the practical coverage rate will be 5 sq.m./litre, but on rough surfaces the coverage rate will be reduced by up to 25%.

Second Coat ⁽¹⁾

Only required on to substrates which have utilised the **Belzona® 5971** or **Belzona® 6241** as the conditioning coat. A practical coverage rate will be 5 sq.m./litre.

2. Reinforced System

Apply the mixed **Belzona® 5161** by short nap roller to the conditioned substrate. Immediately lay the **Belzona® 9361** Reinforcing Sheet into the surface, ensuring no air is trapped beneath and all creases are removed. Use a product laden roller to achieve as smooth a surface as possible. Each new length of Reinforcing Sheet should be butted up to the previously applied length so as to provide a closed joint. Cut and profile around features. The practical coverage rate will be 5 sq.m./litre, but on rough surfaces the coverage rate will be reduced by up to 25%.

Second Coat

Within the recommended overcoating time apply a further coat of **Belzona® 5161** to completely obliterate the Reinforcing Sheet. A practical coverage rate will be 5 sq.m./litre.

Third Coat ⁽¹⁾

Within the recommended overcoating time apply a further coat of **Belzona® 5161**.

NOTES:

1. Coats must not be applied over thick otherwise water cannot escape.
2. On very dark substrates it may be necessary to apply additional coats to obtain complete obliteration.

c) CURE TIME

The **Belzona® 5161** should be allowed to cure as follows:-

Minimum overcoat time	4 hours
Maximum overcoat time	24 hours*
Full Mechanical strength	2 days
Contact with chemicals	5 days

*After this time the surface must be abraded and reconditioned.

(1) **BELZONA® 5261 (WB LAMINATE)**

When a light stable or pastel coloured finish is required the final coat of **Belzona® 5161** should be replaced by two coats of **Belzona® 5261** (see appropriate Instructions For Use Leaflet).

HEALTH & SAFETY INFORMATION

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

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