

# Belzona 5231

FN10177 (SG LAMINATE)



## INSTRUCTIONS FOR USE

### 1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

Any surface to which **Belzona 5231** is to be applied must be clean, firm and dry.

Remove all paint, tar and other coatings, as well as any loose surface material, before application of **Belzona 5231**.

Horizontal concrete surfaces, as well as new concrete, will exhibit the phenomenon of laitance which must be removed prior to application. Allow new concrete to cure for a minimum of 28 days.

Floors should have an effective vapor barrier installed.

Test for presence of moisture either

- In accordance with ASTM D4263 – plastic sheet method, or
- Measure moisture content using Electronic Moisture Meter <6% moisture (<15%WME)

If test is positive for presence of moisture, test further by either

- Measure Moisture Vapor Emission Rate in accordance with ASTM F 1869 – Anhydrous Calcium Chloride test. Acceptable if <3lbs/1000ft<sup>2</sup>/24 hours (15g/m<sup>2</sup>/24 hours), or
- Measure Relative Humidity of concrete in accordance with ASTM F2170. Acceptable if <75%

Vacuum up any loose dust produced by surface preparation techniques.

### 2. COMBINING THE REACTIVE COMPONENTS

Add the entire contents of the Solidifier container to the Base container. Mix thoroughly for 2 minutes until a homogeneous mix is achieved, then proceed to Stage 3 "Application".

#### NOTES:

- A slow speed mechanical paddle mixer may be used, but high speed mixers should not be used as excess air may be incorporated.

#### 2. WORKING LIFE

From the commencement of mixing, **Belzona 5231** must be used within the following times:

Temperature	50°F/10°C	68°F/20°C	86°F/30°C
Use all material within	60 mins	60 mins	30 mins

### 3. MIXING SMALL QUANTITIES

For mixing small quantities of **Belzona 5231** use:

- 3 parts Base to 1 part Solidifier by volume
- 4.7 parts Base to 1 part Solidifier by weight

### 3. APPLYING BELZONA 5231

#### FOR BEST RESULTS

##### Do not apply when:-

- The temperature is below 41°F (5°C) or the relative humidity is above 90%.
- 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.

#### Coverage rates

Recommended number of coats	2
Target thickness 1 <sup>st</sup> coat	6 mils (150 microns)
Target thickness 2 <sup>nd</sup> coat	6 mils (150 microns)
Minimum total DFT	12 mils (300 microns)
Maximum total DFT	Only limited by sag resistance
Practical coverage rate 1 <sup>st</sup> coat	53 ft <sup>2</sup> (5 m <sup>2</sup> )/liter
Practical coverage rate 2 <sup>nd</sup> coat	70 ft <sup>2</sup> (6.5 m <sup>2</sup> )/liter
Theoretical coverage rate to achieve minimum recommended system thickness	35.3 ft <sup>2</sup> (3.3 m <sup>2</sup> )/liter

- Apply the mixed unit of **Belzona 5231** using a short or medium nap roller. Push the product well into the surface, ensuring the substrate is completely wetted. In order to achieve a uniform appearance, the following points should be observed.
  - Finish each roller stroke by pulling back on the roller.
  - Adhere to stated coverage rates.
  - Pour the mixed unit of **Belzona 5231** directly onto the floor before spreading to maximize working life.
  - Apply material as quickly as possible as material approaching the end of its working life may give a different shade.
  - Maintain a wet edge by constantly working away from starting point.
  - Do not re-work previously applied product until overcoat window is reached.
  - Use material with same batch number.
- Apply a second coat of **Belzona 5231** as above following the overcoating instructions in Note 5.

**NOTES:**

**1. COLOUR**

**Belzona 5231** is an industrial coating and although above instructions will minimize colour variation it may not be totally eliminated.

**2. COVERAGE RATES**

A second coat of **Belzona 5231** applied at a thickness greater than 6 mils (150 microns) will reduce the slip resistance. The aggregate-free version will exhibit low slip resistance.

Application to rough, pitted or irregular surfaces may reduce these coverage rates by 20 - 25%.

**3. APPLICATION LIMITS**

**Belzona 5231** should NOT be applied at temperatures below 41°F (5°C).

**4. OUTGASSING**

To minimise problems associated with outgassing, **Belzona 5231** should not be applied when concrete temperature is rising.

**5. OVERCOATING TIME**

At 68°F (20°C) the **Belzona 5231** will be touch dry in 4 hours and has a maximum overcoating time of 8 hours.

At 50°F (10°C) the **Belzona 5231** will be touch dry in 8 hours and has a maximum overcoating time of 24 hours.

**6. CLEANING**

All mixing and application tools should be cleaned immediately after use with **Belzona 9121**.

**4. COMPLETION OF THE MOLECULAR REACTION**

Allow **Belzona 5231** to solidify for the following times, before subjecting it to the conditions indicated.

	Light pedestrian traffic or loading (no chemical contact)	Full traffic or loading	Chemical contact
50°F/10°C	10 hours	24 hours	7 days
68°F/20°C	5 hours	10 hours	5 days
86°F/30°C	3 hours	5 hours	3 days

**NOTE**

Surface temperature should be no lower than 41°F (5°C) throughout the curing period.

**HEALTH & SAFETY INFORMATION**

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

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