

Belzona 5231

FN10096 (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/1000ft²/24 hours (15g/m²/24 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 | 30 mins | 20 mins |

3. MIXING SMALL QUANTITIES

For mixing small quantities of **Belzona® 5231** use:
3 parts Base to 1 part Solidifier by volume

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.

- 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

At a thickness of 300 microns (12 mils) (WFT), the theoretical coverage rate will be 3.33m² (36ft²) per litre or 13.33 m² (144ft²) per 4 litre unit.

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 minimize 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 | 8 hours | 24 hours | 7 days |
| 68°F/20°C | 4 hours | 8 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.

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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