

# Belzona 5233

FN10158



## INSTRUCTIONS FOR USE

### 1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

**Belzona 5233**-Clear has been designed to be used as a top coat in conjunction with **Belzona 5231** as a primer coat and **Belzona 9232** as aggregate to form a 3 layer non-skid, versatile, and UV resistant floor protective coating.

**Belzona 5233**-Colored has been designed to be applied:

- To form a 3 layer system: **Belzona 5231**, **Belzona 9232** and **Belzona 5233**
- To form a 2 layer system: **Belzona 5231** and **Belzona 5233**
- Belzona 5233** directly on concrete surfaces

The areas where **Belzona 5233** will be bonded require additional surface preparation to ensure good adhesion:

The substrate to which **Belzona 5233** is to be applied must be clean and dry.

#### i) Concrete

If required, grind the surface to achieve a profile of 2-3 mils (50-75 microns) for best adhesion.

If the original concrete floor is not in good conditions, presenting cracks and holes, it is recommended to repair with suitable Belzona products.

#### ii) Polymers (such as epoxy)

If the polymer surface is freshly formed, Belzona 5233 can be directly coated within the polymer material overcoat window.

If the polymer surface is old, remove all loose surface contamination and degrease with **Belzona 9111**

(Cleaner/Degreaser), or any other effective cleaner which does not leave a residue e.g. methyl ethyl ketone (MEK).

If required, grind the surface to achieve a profile of 2-3 mils (50-75 microns) for best adhesion.

### 2. COMBINING THE REACTIVE COMPONENTS

Add the entire contents of **Belzona 5233** Solidifier container to the Base container. Mix thoroughly for 3-5 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 5233** must be used within the following time:

	Common ambient conditions: temperature (50-104°F/10-40°C) and relative humidity (10-70%)
Use all material within	1 hour

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### 3. MIXING SMALL QUANTITIES

**Belzona 5233**-Clear:

- 3.3 parts Base : 1 part Solidifier by weight  
3.7 parts Base : 1 part Solidifier by volume

**Belzona 5233**-Blue and Grey:

- 5.4 parts Base: 1 part Solidifier by weight  
5 parts Base : 1 part Solidifier by volume

**Belzona 5233**-Yellow:

- 4.7 parts Base: 1 part Solidifier by weight  
4.1 parts Base : 1 part Solidifier by volume

### 3. APPLYING BELZONA 5233

#### FOR BEST RESULTS

**Do not apply when:**

- The temperature is below 50°F (10°C) or the relative humidity is above 90%.
- Rain, snow, fog or mist is present.
- There is moisture on the metal 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.

#### 3.1 Applying Belzona 5233 to form a 3 layer system:

##### a) Applying Belzona 5231

**Belzona 5231** when applied as a base coat should achieve 10 mil (250 microns) wet film thickness to provide proper adhesion of the aggregate.

Refer to the **Belzona 5231** IFU for application details.

##### Coverage Rate for Belzona 5231

170 ft<sup>2</sup> (15.79 m<sup>2</sup>) / 4 liter unit

The coverage rate will depend on the surface roughness, porosity and profile, in addition to the application skills.

##### b) Applying Belzona 9232

**Immediately** after application of **Belzona 5231** and **while it is still wet**, sprinkle **Belzona 9232** by hand or any suitable spreader.

After **Belzona 5231** has cured, approximately 3 hours at common ambient conditions, remove the excess aggregate by vacuuming or blowing. The extra aggregate can be recycled and reused.

##### Coverage Rate for Belzona 9232

Spread **Belzona 9232** on the surface to give a coverage rate of approximately 2 ft<sup>2</sup>/lb (0.41m<sup>2</sup>/kg). The adhered aggregate onto the cured **Belzona 5231** will be approximately 5 ft<sup>2</sup>/lb (1.02 m<sup>2</sup>/kg).

### c) Applying Belzona 5233

After removing the excess of aggregate, **Belzona 5233** can be applied by rolling with a short or medium nap roller.

### CLEANING

Equipment or any other application tools should be cleaned using water to remove uncured products and a suitable solvent such as **Belzona 9121** or acetone should be used for cured products.

### 3.2 Applying Belzona 5233 to form a 2 layer system:

Only **Belzona 5233-Colored** can be directly applied on a primer coat, such as **Belzona 5231** without an aggregate layer, in order to get a cost-effective top surface.

An additional layer of **Belzona 5233-Clear** can be applied over **Belzona 5233-Colored** in order to achieve further scratch resistant and an aesthetic surface.

### 3.3 Applying Belzona 5233 directly on concrete:

Only **Belzona 5233-Colored** can be directly applied on concrete surface.

## 4 BELZONA 5233 COVERAGE RATES

In practice, many factors influence the coverage rate. Practical coverage rates are quoted below.

Substrate	3 Layer System	Over Belzona 5231
5233-Clear	43.2 ft <sup>2</sup> /L (4.0 m <sup>2</sup> /L)	N/A
5233-Blue	43.2 ft <sup>2</sup> /L (4.0 m <sup>2</sup> /L)	84.0 ft <sup>2</sup> /L (7.8 m <sup>2</sup> /L)
5233-Grey	43.2 ft <sup>2</sup> /L (4.0 m <sup>2</sup> /L)	84.0 ft <sup>2</sup> /L (7.8 m <sup>2</sup> /L)
5233-Yellow	43.2 ft <sup>2</sup> /L (4.0 m <sup>2</sup> /L)	84.0 ft <sup>2</sup> /L (7.8 m <sup>2</sup> /L)

## 5. COMPLETION OF THE MOLECULAR REACTION

Allow **Belzona 5233** to solidify for the following times before subjecting it to the conditions indicated. The following information serves as a guide only.

	Light pedestrian traffic	Light vehicle traffic	Full traffic or loading	Chemical contact
50°F/10°C	16 hours	72 hours	7 days	14 days
68°F/20°C	8 hours	24 hours	5 days	10 days
86°F/30°C	4 hours	16 hours	3 days	7 days

## HEALTH & SAFETY INFORMATION

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

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