

Belzona 4981

FN10091 (MAGMA HT CONDITIONER)



INSTRUCTIONS FOR USE

1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

APPLY ONLY TO CLEAN, FIRM, DRY AND WELL ROUGHENED SURFACES.

a) SURFACE PREPARATION

(i) Concrete Surfaces

Remove all paint, tar and other coatings, as well as any loose surface material, before application of **Belzona® 4981**.

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%

(ii) Metallic Surfaces

Remove any rust, paint and other surface coatings or contaminants. Blast clean the metal surface to achieve the following standard of cleanliness:

ISO 8501-1 Sa 2½ very thorough blast cleaning
American Standard near white finish SSPC SP 10
Swedish Standard Sa 2½ SIS 05 5900.
Minimum depth profile should be 3 mils (75 microns).

Now proceed to Section 2 - "Combining the Reactive Components".

Treat any surface to which **Belzona® 4981** should not adhere with **Belzona® 9411** (Release Agent) and leave for 15 - 20 minutes to dry before proceeding; seal porous surfaces to be treated with **Belzona® 9411** first, with a suitable lacquer, e.g. shellac or cellulose enamel.

2. COMBINING THE REACTIVE COMPONENTS

Add the entire contents of **Belzona® 4981** Solidifier to **Belzona® 4981** Base and stir thoroughly until completely mixed.

NOTES:

- For mixing small quantities of **Belzona® 4981** use:
3 Parts Base : 1 Part Solidifier by Volume
- VOLUME CAPACITY OF Mixed BELZONA® 4981**
52.6 cu.in. (862 cm³)/kg

COVERAGE RATES

The practical coverage rate will typically be 25 sq.ft.(2.3m²)/kg.

Appropriate loss factors must be applied to the above coverage rates. In practice, many factors influence the actual coverage rate achieved. On rough surfaces such as pitted steel the practical coverage rate will be reduced. Application at low temperatures will also reduce practical coverage rates further.

APPLICATION

Apply the **Belzona® 4981** directly on to the prepared surface with a stiff bristled brush or with the plastic applicator provided at the recommended coverage rate.

Conditioning and overcoating must be completed within the following times:

Ambient Temperature	Usable life after mixing	Maximum Overcoat time*	
		Belzona 4181	Belzona 5892
59°F/15°C	55 mins	4 hours	6 hours
68°F/20°C	45 mins	4 hours	6 hours
77°F/25°C	32 mins	4 hours	6 hours

* If the maximum overcoating time for the **Belzona® 4981** is exceeded, then the cured surface should be abraded and fresh Conditioner applied.

CLEANING

Mixing tools should be cleaned immediately after use with **Belzona® 9111** or any other effective solvent e.g. MEK. Application tools should be cleaned using a suitable solvent such as **Belzona® 9121**, MEK, acetone or cellulose thinners.

3. COMPLETION OF THE MOLECULAR REACTION

Allow **Belzona® 4981** to solidify for the following times before subjecting it to the conditions indicated:

Temperature	59°F (15°C)	77°F (25°C)
To resist pedestrian traffic	12 hours	8 hours
For full mechanical hardness	48 hours	24 hours
For full chemical resistance	10 days	5 days

HEALTH & SAFETY INFORMATION

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

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