



BELZONA® 4211 (MAGMA-STOP)

INSTRUCTIONS FOR USE

1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

a) To Seal Leaking Cracks and Joints

Open and enlarge the crack or joint to an undercut slot at least ¼ inch (22 mm) wide and 1 inch (25.4 mm) deep.

b) To Seal Leaking Larger Areas

Where excessive leakage is taking place, drill 1 inch deeper into the slot to allow a relief hose to be inserted. This hose is first sealed around with **Belzona® 4211** but is eventually removed and the hole sealed with a further mix of **Belzona® 4211**.

Wire brush surfaces to remove loose material and laitence and remove all debris. Oil or grease contamination should be removed by washing with detergent solution followed by clean water.

2. COMBINING THE REACTIVE COMPONENTS

PLEASE NOTE

- i) THE PLASTIC GLOVES INCLUDED IN THE PACKAGE SHOULD BE WORN AT ALL TIMES DURING MIXING AND APPLICATION.**
- ii) REMEMBER: ONCE THE WATER IS ADDED, YOU HAVE ONLY 1½ - 2 MINUTES TO MIX AND APPLY THIS MATERIAL.**

Cut open a single 1 kg. unit of **Belzona® 4211** and empty into the clean, plastic mixing bucket supplied. Fill the black **Belzona®** measuring module to within ¼ inch of the neck with water, of a temperature of 55° - 60°F (13° - 15°C). Note: Warmer water will accelerate the cure. Colder water will retard the cure.

Add the water to the powder component and immediately start to mix thoroughly by gloved hand, using the fingers to blend the powder into the liquid. Mixing should be continued until the material begins to thicken at which point it should be scooped up by hand and immediately forced into the crack. It is important at this stage to work quickly as the material will solidify completely within 30 - 60 seconds.

MIXING RATIO FOR SMALL QUANTITIES

If less than 1 kg of **Belzona® 4211** is required, use a mixing ratio of 3 parts **Belzona® 4211** to 1 part water by volume.

3. APPLYING BELZONA® 4211

After forcing mixed **Belzona® 4211** into the crack by hand, working quickly, the application can be finished with a plastic spatula or steel trowel. If necessary further quantities of **Belzona® 4211** can be mixed and applied to contour the surface to the required dimensions, or alternatively after 10 minutes the residue surrounding the repair can be carefully removed to provide a smooth surface prior to application of **Belzona® 4221** (Magma-Seal). If being used to stop a running water leak, the mixed material should be held firmly in place until it solidifies

NOTES

- 1. VOLUME CAPACITY OF MIXED BELZONA® 4211** 35 cu.in. (574 cm³) per kg.
- 2. CLEANING EQUIPMENT**
Equipment can be cleaned immediately after use with water.

4. COMPLETION OF THE MOLECULAR REACTION

The immediate development of strength with low internal heat generation ensures a water-tight seal immediately on hardening. This controlled set is engineered to provide maximum dimensional stability.

Belzona® 4211 will achieve approximately 50% of its ultimate compressive strength after 24 hours, 80% of its final properties after 5 days, but will continue to react to achieve full cure over a 28 day period. Overcoating with **Belzona® 4221** can, however, take place immediately after application of the **Belzona® 4211**.

HEALTH & SAFETY INFORMATION

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

All descriptions are based on the results of long term tests carried out in our laboratories and are believed to be true and accurate. No condition or warranty is given covering the results from the use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept liability if the desired results are not obtained.

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