

Belzona 1212 Leak Sealing Kit

FN00012



INSTRUCTIONS FOR USE

1. TO ENSURE AN EFFECTIVE MOLECULAR WELD

APPLY ONLY TO CLEAN, FIRM AND WELL ROUGHENED SURFACES.

- Wipe away excess leaking material. Use a dry rag in the case of water, and a rag soaked in **Belzona® 9111** (Cleaner/Degreaser) or any other effective cleaner which does not leave a residue e.g. methyl ethyl ketone (MEK) for other contamination.
- Roughen surfaces by deeply scoring or grinding.
- Apply only to stabilized cracks. Vee-out all cracks using a rotary file.
- Finally degrease again. Use clean rags to avoid spreading contamination.

2. COMBINING THE REACTIVE COMPONENTS

BELZONA® 9611

Cut off the required amount of material and knead in gloved hands to a uniform grey colour. Mixing is aided by storing the material between 20 - 25°C.

WORKING LIFE

From commencement of mixing, **Belzona® 9611** should be used within approximately 4 minutes.

BELZONA® 1212

Transfer the required amount of material onto a **Belzona® Working Surface** or similar. Mix thoroughly together with a plastic spatula to achieve a uniform material free of any streakiness.

1. MIXING AT LOW TEMPERATURES

To ease mixing when the material temperature is below 50°F/10°C, warm the containers to between 68°F/20°C and 104°F/40°C.

2. WORKING LIFE

From the commencement of mixing, **Belzona® 1212** must be used within the times shown below.

Temperature	Working Life
41°F/5°C	20 minutes
50°F/10°C	16 minutes
68°F/20°C	9 minutes
86°F/30°C	6 minutes
104°F/40°C	4 minutes

3. MIXING SMALL QUANTITIES

For mixing small quantities of **Belzona® 1212** use:
1 part Base to 1 part Solidifier by volume
5 parts Base to 6 parts Solidifier by weight

4. VOLUME CAPACITY OF MIXED BELZONA® 1212

12.9 in³ / 212 cm³ per 450g unit

3. APPLYING BELZONA® MATERIALS

BELZONA® 9611

Use **Belzona® 9611** to seal live leaks. Force the mixed material into cracks and holes and apply pressure until the material has hardened.

This is best achieved using the **Belzona® Tourniquet** provided. Peel away the Velcro fastener and unroll the rubber strip. Whilst pressing the inward curving end of the rubber strip onto the **Belzona® 9611**, stretch the Tourniquet tightly around the repair ensuring each wrap overlaps approximately half way over the previous wrap. Secure with the Velcro fastener.

BELZONA® 1212

After approximately 1 hour remove the Tourniquet and apply **Belzona® 1212** to secure the repair.

Spread the **Belzona® 1212** on the **Belzona® 9341** (Reinforcement Tape). Apply the resultant bandage to the area to be repaired with the coated side adjacent to the substrate.

Press down firmly to fill all cracks, remove entrapped air, and ensure maximum contact with the surface.

In the case of pipes, wrap tightly round several times so that the **Belzona® 1212** is forced through to the outside of the **Belzona® 9341**.

4. CLEANING

Mixing and application tools should be cleaned immediately after use with **Belzona® 9111** or any other effective solvent e.g. methyl ethyl ketone (MEK), acetone or cellulose thinners.

5. COMPLETION OF THE MOLECULAR REACTION

Allow the **Belzona® 1212** to solidify as below before subjecting the repair to the conditions indicated. These times are for a thickness of approximately 0.25 in (6 mm); they will be reduced for thicker sections and extended for thinner sections.

BELZONA® 1212

Temperature	Machinable	Light Loading	Full Loading	Potable water contact
41°F/5°C	2½ hours	5 hours	16 hours	3¼ days
50°F/10°C	2 hours	4 hours	12 hours	2½ days
68°F/20°C	40 minutes	90 minutes	8 hours	24 hours
86°F/30°C	30 minutes	60 minutes	5 hours	16 hours
104°F/40°C	20 minutes	30 minutes	2½ hours	NT

6. APPLICATION GUIDELINES

- For low pressure application (below 7 bar/100psi/7kgs/cm²) repairs using Reinforcement Tape are satisfactory.
- For higher pressures and extra security a metal reinforcement patch fabricated from similar material to the substrate should be incorporated into the repair.

The patch should be profiled to follow substrate and should extend at least 1 inch (2.5 cm) beyond the damaged area.

Please telephone or fax Belzona® TKHL for further information.

HEALTH & SAFETY INFORMATION

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

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