Belzona 1131 (Bearing Metal) is a 100% solids paste-grade repair system with self lubricating properties for creating low-friction surfaces subject to intermittent contact and low specific loads.

This fully machinable product can be applied without the need for specialist tools and bonds to virtually any surface including steel, aluminium, copper, fibreglass laminate, stainless steel, glass, concrete and brass.

Belzona 1131 has a unique microporous structure to trap and hold lubricating oil, minimising friction at start up. It also reduces risk of seizure in the event of lubrication starvation.

It does not expand, contract or distort during cure and has excellent electrical insulation properties.

**Mixing ratio (Base : Solidifier)**

<table>
<thead>
<tr>
<th>Mixing ratio (Base : Solidifier)</th>
<th>3 : 1 by volume</th>
<th>4 : 1 by weight</th>
</tr>
</thead>
</table>

**Working life**

Working life: 15 minutes at 25°C (77°F)

**Shelf life**

Shelf life: 5 years

**Dry heat resistance**

Dry heat resistance: 200°C (392°F)

**Adhesion (tensile shear)**

Adhesion (tensile shear): Mild steel: 20.8 MPa (3,200 psi)

**Compressive strength**

Compressive strength: 82.9 MPa (12,030 psi) at 20°C (68°F) cure

**Volume capacity**

Volume capacity: 561 cm³ (34.2 in³) / 1 kg

**Heat distortion temperature**

Heat distortion temperature: 51°C (124°F) at 20°C (68°F) cure

**Abrasion resistance**

Abrasion resistance: H10 - 1022 mm³ wet

<table>
<thead>
<tr>
<th>Temperature</th>
<th>10°C (50°F)</th>
<th>15°C (59°F)</th>
<th>20°C (68°F)</th>
<th>25°C (77°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No loading or immersion</td>
<td>3 hours</td>
<td>2¾ hours</td>
<td>1¾ hours</td>
<td>1 hour</td>
</tr>
<tr>
<td>Machining and/or light loading</td>
<td>4 hours</td>
<td>3 hours</td>
<td>2 hours</td>
<td>1½ hours</td>
</tr>
<tr>
<td>Full mechanical or thermal loading</td>
<td>2 days</td>
<td>1½ days</td>
<td>24 hours</td>
<td>20 hours</td>
</tr>
</tbody>
</table>

*Please consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.
Key Benefits:

- **Versatile and precise**
  Bonds strongly to almost any surface and moulds to precise contours.

- **Self-lubricating**
  The porous oil-holding surface of the product minimises wear at start-up and reduces the risk of seizure in the event of lubrication starvation.

- **Effective**
  Belzona 1131 is fully machinable and has excellent heat and chemical resistance as well as high mechanical strength.

Application Areas:

- Worn seal area
- Seal area repaired
- Corroded shaft
- Shaft rebuilt

- Bearings
- Bushings
- Guides
- Lathes
- Low friction areas
- Pipe supports
- Shafts
- Slideways

For more information, please contact your local Belzona representative.

**QUALITY PRODUCTS - TECHNICAL SUPPORT**

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

Belzona has a global distribution network of over 140 Distributors operating in 120 countries. Local support is provided by a trained Technical Consultant who will diagnose the problem, recommend the solution and provide 24-hour, on-site application supervision and advice.