

### Belzona 1131 (Bearing Metal)

A 2-part epoxy metal repair composite with self-lubricating properties for creation of low friction surfaces and protection of lubrication systems from wear and seizure in the event of lubrication loss. This solvent-free repair composite has a unique microporous structure which allows it to trap and hold lubricating oil, minimising friction at start-up and improving the efficiency of mechanical equipment such as pumps. It has outstanding chemical resistance and will bond to almost any rigid surface without the need for hot work.

#### Key benefits:

- Protection of equipment from wear and seizure
- Reduction of friction at start up
- Reduced health and safety risks as it is solvent-free
- Simple mixing ratio
- Application and cure at room temperature - no hot work involved
- No shrinkage, expansion or distortion
- Can be easily applied in thick or thin sections in one operation allowing rapid return to service
- High mechanical strength and heat resistance
- Excellent bonding to almost any rigid surface including steel, aluminium, copper, stainless steel, brass, cast iron and many more

#### Applications for Belzona 1131 (Bearing Metal) include:

- Rebuilding of worn shafts at bearing locations
- Repair and efficiency increase of mechanical equipment including pump rotating elements
- Repair and creation of plain bearings
- Creation of bushings
- Sliding low friction wear layers for pipe supports

#### Key technical data:

<b>Working life at 25°C (77°F)</b>	15 minutes
<b>Time to mechanical cure 25°C (77°F)</b>	20 hours
<b>Pull off adhesion (D4541 / ISO 4624)</b>	1,770 psi (12.2 MPa) on grit blasted steel
<b>Compressive yield strength (ASTM D695)</b>	10,800 psi (74.5 MPa)
<b>Temperature resistance</b>	100°C (212°F) immersed, 200°C (392°F) dry
<b>Bonds to</b>	Steel, aluminium, copper, stainless steel, brass, cast iron and most other rigid surfaces

<b>Typical applications</b>	Creation of low friction surfaces, rebuilding of worn equipment, efficiency increase
<b>Unit size</b>	1 kg. Pack sizes may vary locally.
<b>Availability*</b>	Global