

# Self-Lubricating Metal Repair System



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.

TECHNICAL DATA	Mixing ratio (Base : Solidifier)	3 : 1 by volume	4 : 1 by weight
	Working life	15 minutes at 25°C (77°F)	
	Shelf life	5 years	
	Dry heat resistance	200°C (392°F)	
	Adhesion (tensile shear)	Mild steel: 20.8 MPa (3,200 psi)	
	Compressive strength	82.9 MPa (12,030 psi) at 20°C (68°F) cure	
	Volume capacity	561 cm <sup>3</sup> (34.2 in <sup>3</sup> ) / 1 kg	
	Heat distortion temperature	51°C (124°F) at 20°C (68°F) cure	88°C (190°F) at 100°C (212°F) cure
Abrasion resistance	H10 - 1022 mm <sup>3</sup> wet	CS17 - 61 mm <sup>3</sup> dry	

CURE TIMES	Temperature	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)
	No loading or immersion	3 hours	2¼ hours	1¾ hours	1 hour
	Machining and/or light loading	4 hours	3 hours	2 hours	1½ hours
	Full mechanical or thermal loading	2 days	1½ days	24 hours	20 hours

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



**FAST CURING**



**EXCELLENT ADHESION**



**HIGH MECHANICAL STRENGTH**



**SELF LUBRICATING**

## 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

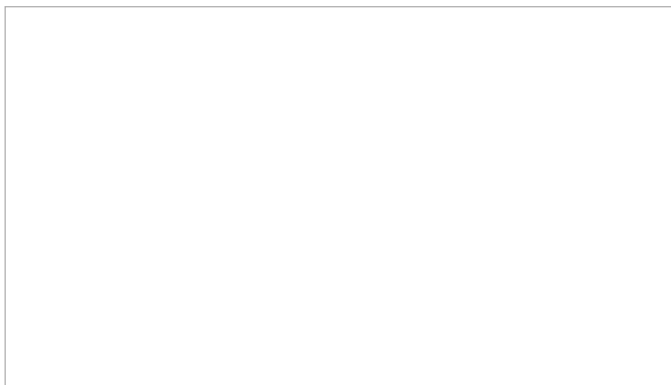
- Bearings
- Bushings

- 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.