

# Adhesive Coating for Positive Grip Surfaces



Belzona 1821 (Fluid Metal) is a grip system used to bond Belzona 9211 (Supergrip) or Belzona 9231 (Surefoot) to the surface of machinery and equipment.

It can be easily mixed and brush-applied to metallic surfaces (including aluminium) and does not require any hot work to cure. Also, as a solvent-free and low odour material, it can be applied indoors and on-site in public areas.

This fluid grade repair system ensures highly effective, durable, non-slip surface with excellent adhesion, wear and chemical resistance.

TECHNICAL DATA	Mixing ratio (base : solidifier)	2.7 : 1 by volume	6.7 : 1 by weight
	Working life	20 minutes at 25 °C (77 °F)	
	Shelf life	5 years	
	Dry heat resistance	200 °C (392 °F)	
	Adhesion (tensile shear)	Mild steel : 20,6 MPa (3000 psi)	Aluminium : 10,3 MPa (1500 psi)
	Compressive strength	77,9 MPa (11 300 psi)	
	Volume capacity	478 cm <sup>3</sup> (29,2 in <sup>3</sup> ) / kg	
	Heat distortion temperature	47 °C (117 °F) at 20 °C (68 °F) cure	
	Coverage rate	0.86 m <sup>2</sup> (9,25 ft <sup>2</sup> ) / kg at a thickness of 500 microns (20 mil)	
Abrasion resistance	CS17 - 40 mm <sup>3</sup> dry		

CURE TIMES	Temperature	15°C (59°F)	20°C (68°F)	25°C (77°F)
	Movement or use involving no loading	16 hours	6 hours	3 hours
	Machining or light loading	16 hours	6 hours	3 hours
	Full mechanical or thermal loading	1 ½ days	1 ½ days	1 day
	Contact with chemicals	14 days	10 days	5 days

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



POSITIVE GRIP



EXCELLENT ADHESION



COLD TEMPERATURE CURE



CHEMICAL RESISTANCE



SOLVENT FREE



BRUSH APPLIED

## Key Benefits:

- **Easy application**

Belzona 1821 is an easy-to-apply system, only requiring hand tools and curing at room temperature.

- **Provide positive grip**

When mixed with a Belzona aggregate, Belzona 1821 will reduce slip hazards and exhibit excellent wear resistance.

- **Chemical resistance**

Once cured, Belzona 1821 exhibits resistance to many commonly found chemicals, including hydrocarbons, mineral oils and lubricating oils.

- **Outstanding adhesion**

Manually applied without the need for hot work or specialist tools, reducing downtime.

- **Hard wearing**

Over time, Belzona 1821 does not polish, peel or wear away, maintaining the same levels of grip as when first applied.



Drive Rollers - 12 years after the original application, still in excellent condition

## Application Areas:

- Brake test rollers
- Conveyor drive drums
- Dock levellers
- Dynamometer
- Fire escapes
- Fork lift grab arms
- Loading ramps
- Take off and feed rollers
- Vehicle step ups
- Walkways



Polished steel ramp before coating



Ramp with Belzona 1821 chevrons

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.