

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 (3,000 psi)	Aluminum: 10.3 MPa (1,500 psi)
	Compressive strength	77.9 MPa (11,300 psi)	
	Volume capacity	478 cm ³ (29.2 in ³) / 1 kg	
	Heat distortion temperature	47°C (117°F) at 20°C (68°F) cure	
	Coverage rate	0.86 m ² (9.25 ft ²) / 1 kg at 500 microns (20 mil)	
	Abrasion resistance	CS17 - 40 mm ³ 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 and/or light loading	16 hours	6 hours	3 hours
	Full mechanical or thermal loading	1½ days	1½ days	1 day
	Immersion in 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.