

# Industrial Paste-Grade Lining for Protection Against Abrasive Attack



Belzona 1811 (Ceramic Carbide) is a two-component repair and protective coating for the protection of surfaces subject to abrasive attack.

Belzona 1811 is designed to provide protection against abrasive particles larger than sand, such as rocks, gravel or coal.

It can be applied without the need for specialist tools. It is a paste-grade material which will adhere to a wide range of substrates, providing a seamless abrasion resistant lining.

TECHNICAL DATA	Mixing ratio (base : solidifier)	4 : 1 by volume	8,5 : 1 by weight
	Working life	60 minutes at 20 °C (68 °F)	
	Shelf life	5 years	
	Dry heat resistance	200 °C (392 °F)	
	Adhesion (tensile shear)	Mild steel : 16,55 MPa (2400 psi)	
	Compressive strength	77,91 MPa (11 300 psi)	
	Volume capacity	459 cm <sup>3</sup> (28 in <sup>3</sup> ) / kg	
	Heat distortion temperature	49 °C (120 °F)	
	Coverage rate	0,077 m <sup>2</sup> (0,82 ft <sup>2</sup> ) / kg at 6 mm (0,25 in)	
	Abrasion resistance	H10 - 57 mm <sup>3</sup> wet	CS17 - 7 mm <sup>3</sup> dry

CURE TIMES	Temperature	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)
	Movement or use involving no loading	16 hours	12 hours	8 hours	6 hours
	Machining or light loading	24 hours	18 hours	12 hours	8 hours
	Full mechanical or thermal loading	5 days	4 days	3 days	2 days
	Contact with chemicals	10 days	7 days	5 days	3 days

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



**CORROSION RESISTANT**



**ABRASION RESISTANT**



**SOLVENT FREE**



**BROAD SERVICE TEMPERATURE RANGE**

## Key Benefits:

- **Excellent abrasion resistance**

Belzona 1811 exhibits outstanding abrasion resistance due to a hardness comparable to basalt. Additionally, it can withstand dry abrasion up to temperatures of 150°C (302°F).

- **Easy to apply**

The material is easy to mix and does not require any additional aggregates. During application, no specialist tools are necessary and it is possible to apply thick and thin sections in one operation.

- **Impressive adhesive properties**

Belzona 1811 can bond to all rigid substrates, including steel and cast iron.

- **Flawless finish**

It is possible to feather edge Belzona 1811 to provide the desired effect. It is a seamless material which upon curing will not shrink, expand or distort.



## Application Areas:

- Centrifuges
- Chutes
- Cyclones
- Deflector plates
- Hoppers
- Impellers
- Mixing bowls
- Nozzles
- Pipe bends
- Wear plates

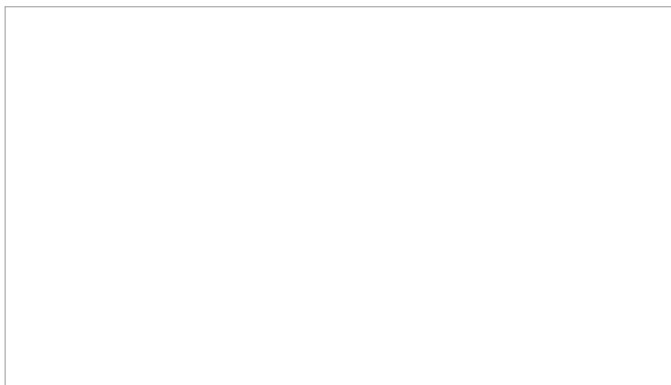


Screw Auger before coating



Screw Auger coated in Belzona 1811

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.