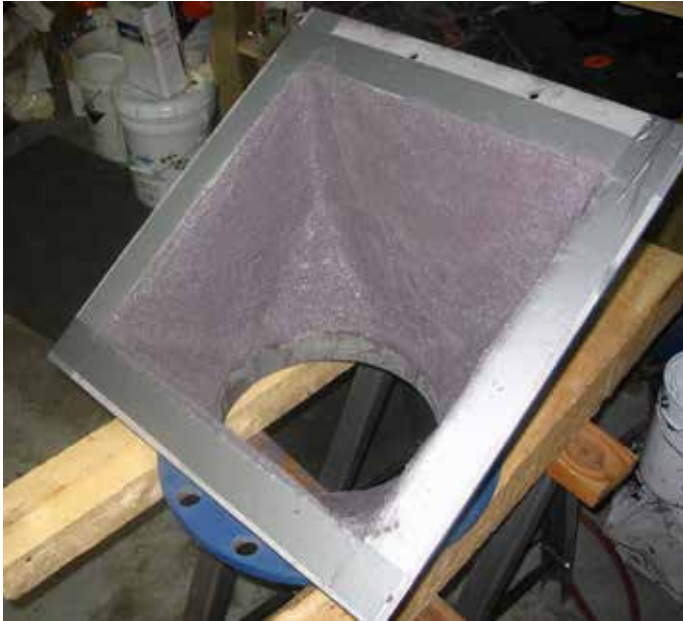


# Industrial Paste-Grade Lining for Protection Against Abrasive Attack



Belzona 1812 (Ceramic Carbide FP) is a two-component repair and protective coating for the protection of surfaces subject to abrasive attack.

Belzona 1812 is designed to provide protection against abrasive particles smaller than sand including silt, clay or dust.

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	4.5 : 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: 13.4 MPa (1,950 psi)	
	Compressive Strength	100.6 MPa (14,600 psi) after 7 day cure	
	Volume Capacity	440 cm <sup>3</sup> (26.85 in <sup>3</sup> ) / 1 kg	
	Heat distortion temperature	50°C (122°F) at 20°C (68°F) cure	
	Coverage rate	0.149 m <sup>2</sup> (1.60 ft <sup>2</sup> ) / 1 kg at 3mm (0.125 in)	
Abrasion resistance	H10 - 51 mm <sup>3</sup> wet		

CURE TIMES	Temperature	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)
	No loading or immersion	8 hours	6 hours	4 hours	3 hours
	Machining and/or light loading	12 hours	9 hours	6 hours	4 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 1812 exhibits outstanding abrasion 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 1812 can bond to all rigid substrates, including steel and cast iron.

- **Flawless finish**

It is a seamless solvent-free material which upon curing will not shrink, expand or distort.

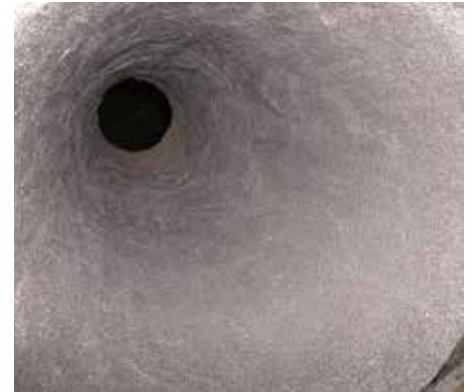


## Application Areas:

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

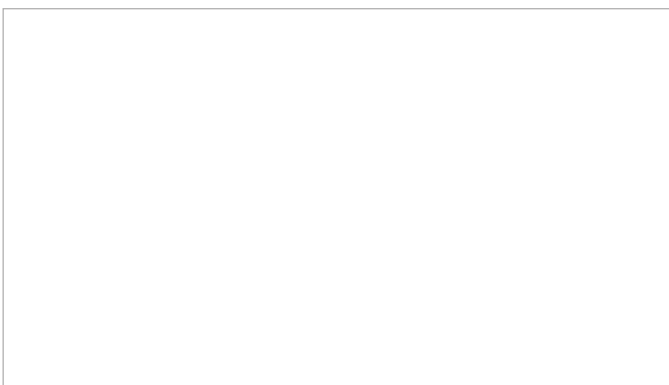


Steel cone before coating



Steel cone coated in Belzona 1812

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.