

# Repair System for Protection Against Abrasive Attack



**BELZONA**  
1814



Belzona 1814 is a cost-effective three-component repair system for the protection of surfaces subject to abrasive attack.

This material is designed to provide protection in highly abrasive environments and is specifically formulated for application over large areas.

Supplied as a three-part system, with a base, solidifier and aggregate, Belzona 1814 is easy to mix and apply without the need for specialist tools.

This thixotropic material will adhere to a wide range of substrates, providing a seamless abrasion resistant lining at thicknesses up to 12.7mm (1/2in).

TECHNICAL DATA	Mixing ratio (base : solidifier : aggregate)	2 : 1 : 5 by volume	
	Working life	60 minutes at 20°C (68°F)	
	Coverage rate	2.14 m <sup>2</sup> (23 ft <sup>2</sup> ) at 6mm (0.25 in) per 30 kg unit	
	Shelf life	5 years	
	Taber Dry (CS17) 1kg 1000 cycles	7 mm <sup>3</sup> loss	
	Taber Wet (H10) 1kg 1000 cycles	51 mm <sup>3</sup> loss	
	Grit Impact 2kg 90° 80 psi	10 mm <sup>3</sup> loss	
	Heat distortion temperature (HDT)	43°C (109°F) after 20°C (68°F) cure	80°C (176°F) after 90°C (194°F) cure
	Adhesion (Tensile Shear)	Mild Steel: 9.5 MPa (1370 psi)	

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Movement or use involving no loading	32 hours	12 hours	10 hours	6 hours
	Light loading	5 days	24 hours	16 hours	12 hours
	Full mechanical or thermal loading	14 days	7 days	4 days	2 days

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



**CORROSION  
RESISTANT**



**ABRASION  
RESISTANT**



**SOLVENT FREE**



**EASY TO APPLY OVER  
LARGE AREAS**

## Key Benefits:

- **Excellent abrasion resistance**

Belzona 1814 exhibits outstanding abrasion resistance and can withstand dry abrasion up to temperatures of 70°C (158°F).

- **Easy to apply**

The material is easy to mix and benefits from extended working life making it ideal for large areas. During application, no specialist tools are necessary and it is possible to apply thick and thin sections in one operation.

- **Impressive adhesive properties**

Belzona 1814 can bond to all rigid substrates, including steel and cast iron.

- **Seamless finish**

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



Protection for chutes and hoppers



Grouting for alumina tiles



Simple mixing



Easy application

## Application Areas:

- Slurry pumps
- Chutes
- Hydrocyclones
- Grinding mills
- Conveying systems
- Mining industry
- Dredging vessels
- Coal power
- Pulp and paper
- Cement
- Sugar industry



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.