# Repair System for Protection Against Abrasive Attack





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).

Mixing ratio (base : solidifier : aggregate)	2 : 1 : 5 by volume				
Working life	60 minutes at 20°C (68°F) 4.27 m² (46 ft²) at 3mm (0.12 in) per 30 kg unit				
Coverage rate					
Shelf life	5 years				
Taber Dry (CS17) 1kg 1000 cycles	7 mm³ loss   51 mm³ loss   10 mm³ loss				
Taber Wet (H10) 1kg 1000 cycles					
Grit Impact 2kg 90° 80 psi					
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)				
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ЕS	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Σ ⊥	Movement or use involving no loading	32 hours	12 hours	10 hours	6 hours
ш К	Light loading	5 days	24 hours	16 hours	12 hours
СU	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.



RESISTANT



ABRASION RESISTANT







EASY TO APPLY OVER LARGE AREAS

## <mark>1000 Series</mark> BELZONA 1814



### 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



Simple mixing



Grouting for alumina tile



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.