

# Fast-Curing, Flexible Repair Composite



**BELZONA**  
**2311**



Belzona 2311 (SR Elastomer) is a two-component elastomeric polymer repair and rebuild composite for rubber components.

This easy-to-mix material cures rapidly, without the need for heat, enabling repairs to be carried out with minimal downtime.

Belzona 2311 can be used for both emergency and permanent repairs without the need of specialist equipment. It exhibits high adhesion to many substrates - metallic, plastic or rubber - and once applied, can cure to experience movement in as little as 15 minutes. This makes it Belzona's fastest curing elastomer.

Ideally designed for fast and small repairs, this flexible material also has exceptional properties to protect it against wear, impact and abrasion.

TECHNICAL DATA	Mixing ratio (base:solidifier)	1 : 1 by volume		
	Working life	2 minutes at 25°C (77°F)		
	Shelf life	3 years		
	Adhesion (90° peel)	Mild steel: 2,137 kg/m (119 pli)		
	Adhesion (180° peel) *cohesive failure of substrate	Natural rubber: 250 kg/m (14 pli)	Styrene-butadiene: 250 kg/m (14 pli)	
	Volume capacity	66.5 cm <sup>3</sup> (4.1 in <sup>3</sup> ) / 75 g		
	Elongation	450% after 24 hour cure at 20°C (68°F)		
	Shore A hardness	75		
	Tensile strength	9.65 MPa (1,400 psi)		
	Tear strength	260 pli		
Abrasion resistance - loss per 1000 cycles	H18 - 109 mm <sup>3</sup> dry	H18 - 45 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	40 minutes	30 minutes	25 minutes	20 minutes
	Full mechanical or thermal loading	2 hours	1 ½ hours	1 hour	50 minutes

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



**CHEMICAL  
RESISTANT**



**FAST CURING**



**HIGH  
ELASTICITY**



**EASY TO APPLY  
(NO SPECIALIST  
TOOLS)**



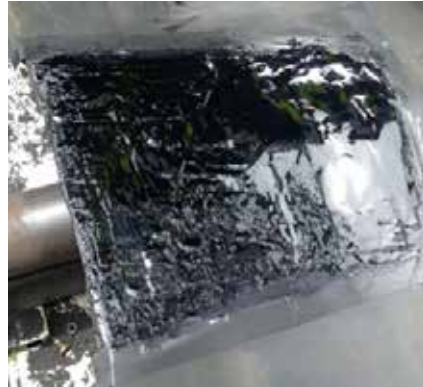
**SOLVENT FREE**

## Key Benefits:

- **Dramatically decreases downtime**  
Belzona 2311 is an extremely fast-curing material. At 20°C (68°F) it can cure in 1 hour to be able to experience mechanical/thermal loading.
- **Simple to use**  
This cold-curing material does not require any specialist tools to apply and in one application, can achieve up to 12.5mm in thickness.
- **Convenient packaging**  
With a shelf life of three years, Belzona 2311 can be stored to be used in emergency situations. It comes in impervious, multi-layer metal polymer sachets to facilitate small applications.
- **Durable**  
Belzona 2311 has outstanding characteristics including high tear, impact and abrasion resistance, elongation of up to 450% and is also able to bond tenaciously to many substrates.



Before

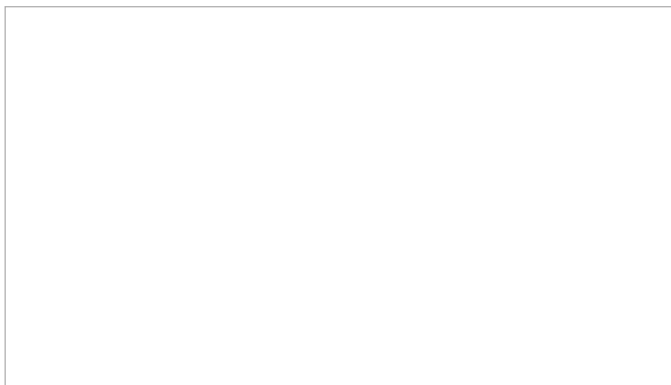


After

## Application Areas:

- Cable covers
- Damaged conveyor belts
- Disbonded components
- Floating hoses
- Gaskets
- Off-road tyre sidewalls
- Pump impellers
- Rubber handrails
- Rubber linings
- Rubber rollers

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.