

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.

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|---------------------|---|--|---|
| TECHNICAL DATA | Mixing ratio (base:solidifier) | 1 : 1 by volume | 0.974 : 1 by weight |
| | Working life | 2 minutes at 25°C (77°F) | |
| | Shelf life | 3 years | |
| | Adhesion (90°C peel) | Mild steel: 2,137 kg/m (119 pli) | |
| | Adhesion (180°C peel) *cohesive failure of substrate | Natural rubber: 250 kg/m (14 pli) | Styrene-butadiene: 250 kg/m (14 pli) |
| | Volume capacity | 66.5 cm ³ (4.1 in ³) / 75 g | |
| | Heat resistance | -40°C to 65°C (-40°F to 150°F) | |
| | Shore A hardness | 75 | |
| | Tensile strength | 9.65 MPa (1,400 psi) | |
| | Tear strength | 260 pli | |
| Abrasion resistance | H18 - 109 mm ³ dry | H18 - 45 mm ³ wet | |

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|------------|------------------------------------|-------------|-------------|-------------|-------------|
| 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 |
| | Immersion in chemicals | 1 ½ days | 1 day | 18 hours | 15 hours |

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



**CHEMICAL
RESISTANT**



FAST CURING



**HIGH
ELASTICITY**



**UV AND
WEATHER
RESISTANT**



**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

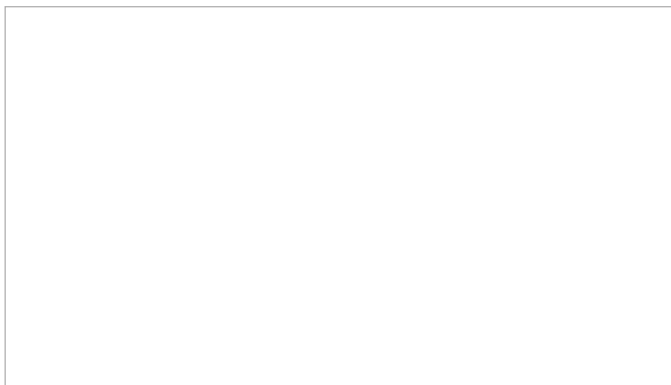


After

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.