

Elastomeric Sealant for Construction and Expansion Joints



Belzona 4521 (Magma-Flex Fluid) is a solvent-free, two-component material designed for effective sealing of construction and expansion joints.

This hybrid polymer system is designed as a cost-effective and high performance alternative to conventional mastics and sealants. Moreover, it provides joints with up to 25% flexibility and excellent weather resistance. This makes Belzona 4521 ideally suited as a long-term solution for deteriorated expansion joints both inside and outside.

This material helps to avoid costly structural rebuild and reduces downtime due to being cold applied. In addition, Belzona 4521 adheres well to most surfaces, including brick, concrete, stone and steel.

TECHNICAL DATA	Mixing ratio (base:solidifier)	6 : 1 by weight		4.7 : 1 by Volume	
	Working life	120 minutes at 22°C (72°F)			
	Shelf life	5 years			
	Volume capacity	3224 cm ³ (196.8 in ³) / 4 kg			
	Expansion joint applications	Class 25, Type M, Grade N Sealant (± 25% movement) under modified ASTM C-719			
	Shore A hardness	46			
	Adhesion (90° peel)	Blasted steel: 805.4 kg/m (45.1 pli)	Aluminium: 914.3 kg/m (51.2 pli)	Concrete: 708.8 kg/m (39.7 pli)	Belzona 4111: 771.5 kg/m (43.2 pli)
Tear strength	1,384 kg/m (77.5 pli)				

CURE TIMES	Temperature	10°C (50°F)	22°C (72°F)	30°C (86°F)	40°C (105°F)	50°C (122°F)
	Light loading	1 day	8 hours	4 hours	2 hours	1 hour
	Full mechanical or thermal loading	2 days	1 day	12 hours	6 hours	3 hours

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



EXCELLENT FLEXIBILITY



WEATHERPROOF



EXCELLENT ADHESION



EASY TO APPLY

Key Benefits:

- **Excellent flexibility**

Demonstrates long-term flexibility, accommodating for horizontal and shear movement up to 25%.

- **Weather resistant**

Belzona 4521 is weather and UV resistant, whilst also retaining its elasticity at low temperatures.

- **Excellent adhesion**

Exhibits excellent adhesion, even onto porous substrates affected by environmental moisture.

- **Easy to apply**

Manually applied without the need for hot work or specialist tools, reducing downtime.



Used to refurbish failed joints in containment area

Application Areas:

- Bridges and roadways
- Industrial utilities
- Manufacturing plants
- Parking garages
- Public buildings
- Retail facilities
- Stadia
- Warehouses

Before and After:



Damaged joint



Refurbished joint

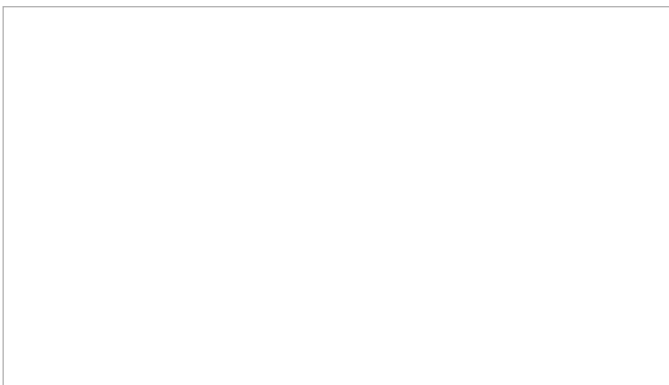


Deteriorated joint



Repaired with Belzona 4521

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.