

# Lightweight Repair System for Rebuilding Vertical and Overhead Surfaces



# 4141



Belzona 4141 (Magma-Build) is a two-component, lightweight repair composite for the rebuilding of damaged vertical and overhead concrete surfaces. This high-build system simplifies applications whilst providing long-term protection.

Crucially, it does not require the use of fixed shuttering or formwork. It can be applied up to 12.7cm (5 inches) thick on vertical surfaces and 7.6cm (3 inches) on overhead surfaces.

Additionally, as a solvent-free material, it is ideal for both internal and external masonry. It can be tinted to blend into existing substrates and upon curing, will not alter in appearance as it experiences no shrinkage, does not absorb water or chemicals and exhibits excellent carbonation resistance.

TECHNICAL DATA	Mixing ratio (Base:Solidifier)	13 : 1 by volume	8 : 1 by weight
	Working life	30 minutes at 20°C (68°F)	
	Shelf life	5 years	
	Adhesion (pull-off) * cohesive failure of substrate	Dry concrete: 3.6 MPa (520 psi)*	Damp concrete: 4.2 MPa (605 psi)*
	Compressive strength	43.4 MPa (6,290 psi)	
	Volume capacity	9,805 cm <sup>3</sup> (598 in <sup>3</sup> ) / 8 kg	
	Heat distortion temperature	41°C (106°F)	
	Abrasion resistance	CS17 - 374 mm <sup>3</sup> (0.02 in <sup>3</sup> ) dry	

CURE TIMES	Temperature	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Dimensionally stable	8 hours	6 hours	3 hours	2 hours	1 hour
	Full mechanical strength	3 days	2.5 days	2 days	16 hours	2 hours

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



**NO SHRINKAGE**



**EXCELLENT ADHESION**



**LIGHTWIEGT APPLICATION**



**FAST CURING**



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

## Key Benefits:

- **Easy to use**

Belzona 4141 is an easy-to-mix solution which does not require any specialist tools to apply.

- **Lightweight**

This lightweight material can be applied up to 12.7cm (5 inches) thick on vertical surfaces and 7.6cm (3 inches) on overhead surfaces with zero-to-minimal shuttering necessary.

- **Fast curing**

This material will cure to full mechanical strength in only 2 days at 20°C (68°F).

- **No shrinkage**

As a solvent-free solution, Belzona 4141 experiences no shrinkage, expansion or distortion upon curing.

- **Excellent adhesion**

Belzona 4141 exhibits excellent adhesion to concrete and stone surfaces, regardless of the angle of the substrate.



## Application Areas:

- Archways
- Bridges
- Canopies
- Refurbishment of decorative mouldings
- Roofs
- Spalled concrete
- Stonework
- Walls
- Window sills

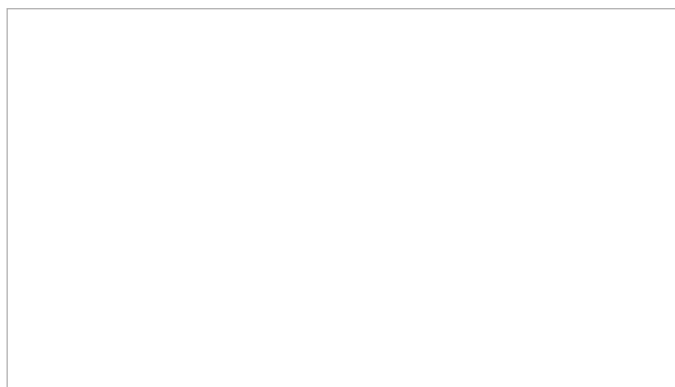


Before



After

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.