

Acid and Heat Resistant Repair and Protection Screed



BELZONA[®]

4181



Belzona 4181 (AHR Magma-Quartz) is an acid and heat resistant system for the repair and protection of concrete, stone and other rigid substrates subject to impact, abrasion and chemical attack.

Belzona 4181 is ideally suited for horizontal surfaces and may be applied on vertical surfaces up to 6mm (0.25in) thickness.

This versatile material provides outstanding adhesion and mechanical strength at elevated temperatures. It also possesses excellent chemical resistance, particularly to inorganic acids.

Belzona 4181 is a solvent-free repair composite which, when mixed, forms a material of trowelable consistency to rebuild damaged surfaces.

TECHNICAL DATA	Mixing ratio (base:solidifier:aggregate)	100 : 30 : 1000 by weight	
	Working life	30 minutes at 25°C (77°F)	
	Shelf life	5 years	
	Dry heat resistance	150°C (300°F)	
	Adhesion (tensile shear)	16.5 MPa (2,400 psi)	
	Compressive strength	63.1 MPa (9,150 psi)	
	Volume capacity	6,300 cm ³ (384 in ³) / 15 kg	
	Heat distortion temperature	54°C (129°F) at ambient cure	186°C (365°F) post cure at 100°C (212°F)
	Abrasion resistance	H10 - 395 mm ³ wet	
	Coverage rate	1.05 m ² (10.67 ft ²) / 15 kg at 6 mm (0.25 in)	

CURE TIMES	Temperature	15°C (59°F)	25°C (77°F)
	To resist pedestrian traffic	12 hours	8 hours
	Machine hard	16 hours	12 hours
	Full mechanical hardness	2 days	1 day
	Full chemical resistance	10 days	5 days

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



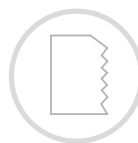
SOLVENT FREE



NO SHRINKAGE



**COLD
TEMPERATURE
CURE**



**CAN BE FEATHER
EDGED**



**EXCELLENT
IMPACT
RESISTANCE**



**DOES NOT
ABSORB WATER**

Key Benefits:

- Easy to use

Belzona 4181 is easy to mix and does not require any specialist tools for application.

- Durable system

This system provides high mechanical strength and impact and abrasion resistance. It will not absorb water or chemicals.

- Resistance through curing

The material develops acid resistance as it cures and will develop heat resistance post cure.

- Excellent adhesion

Belzona 4181 will adhere to a wide range of substrates including: concrete, brick, marble, stone and many other rigid surfaces.



Chemical channel

Application Areas:

- Bunds
- Chemical drains and channels
- Flange faces
- Gulleys
- Loading docks
- Pump bases
- Sumps
- Tank pods
- Transfer and holding areas



Sump before



Sump after coating

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.