

PRODUCT SPECIFICATION SHEET

BELZONA 4154

FN10188



GENERAL INFORMATION

Product Description:

A two component clear amber resin system designed to use with various aggregates for repairing and resurfacing concrete and stonework damaged by impact, vibration, chemicals and environmental attack. Designed to be cost effective for large volume repairs. Note that this product is designed to be over coated with other Belzona materials.

For aggregates recommendations, please refer to Belzona Instructions for Use (IFU).

Application Areas:

When mixed and applied as detailed in the Belzona Instructions for Use (IFU), the system is ideally suited for:

Repairing and rebuilding any structure made from concrete, brick, marble, stone, etc.

APPLICATION INFORMATION

Working Life

Will vary according to temperature. At 68°F (20°C), use all mixed material within 45 minutes.

Coverage Rates

The coverage rate is typically 10.7 ft² (1.0 m²) at an average thickness of 0.5 in (12 mm) per 3.25 kg Belzona 4154 mixed with 22.5 kg (50 lb) aggregate. The practical coverage rate will vary according to the characteristics of aggregate.

Cure Time

Will be reduced for thicker sections and extended for thinner applications. Allow to solidify for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

Volume Capacity

The volume capacity is typically 770 in³ (12700 cm³) per 3.25 kg Belzona 4154 mixed with 22.5 kg (50 lb) aggregate. The practical volume capacity will vary according to the characteristics of aggregate.

Base Component

Appearance	Hazy Liquid
Color	Light amber
Viscosity	8.4 poise at 72°F (22°C)
Density	1.10 g/cm ³

Solidifier Component

Appearance	Clear Liquid
Color	Amber
Viscosity	1.2 poise at 72°F (22°C)
Density	1.00-1.03 g/cm ³

Mixing Ratio

For mixing small quantities the mixing ratio by weight of the component is:

(Base : Solidifier)	6.7 : 1
(Base : Solidifier : Aggregate)	6.7 : 1 : 53

The above application information serves as introductory guide only. For full application details including the recommended application procedure/technique, refer to the Belzona IFU which is enclosed with each packaged product.

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ADHESION

Tensile Shear

The tensile shear adhesion to steel when tested in accordance with ASTM D1002 after 24 hours at 72°F (22°C) is typically 2,800 psi (19.31 MPa).

Positest Dolly Pull Off

When tested in accordance with ASTM D4541, adhesion will typically be:

Dry concrete	
>500 psi (3.45 MPa)*	24 hours at 72°F (22°C)

* Cohesive failure of substrate

COMPRESSIVE PROPERTIES

Compressive Strength

When tested in accordance with ASTM D695 the compressive strength is typically

9500 psi (65.50 MPa)	24 hours at 72°F (22°C)
13000 psi (89.63 MPa)	7 days at 72°F (22°C)

Compressive Modulus

When tested in accordance with ASTM D695 the compressive modulus is typically

2.60×10^5 psi (1793 MPa)	24 hours at 72°F (22°C)
2.90×10^5 psi (1999 MPa)	7 days at 72°F (22°C)

FLEXURAL PROPERTIES

Flexural Strength

The flexural strength of the material when tested to ASTM D790 is typically

7500 psi (51.71 MPa)	24 hours at 72°F (22°C)
11800 psi (81.36 MPa)	7 days at 72°F (22°C)

HARDNESS

Shore D

The Shore D hardness of the material when tested in accordance with ASTM D2240 after 24 hours at 72°F (22°C) is typically: 81.

SHELF LIFE

Separate base and solidifier components shall have a shelf life of 5 years from date of manufacture when stored in their original unopened containers between 32°F (0°C) and 86°F (30°C).

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WARRANTY

Belzona guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in the Belzona Information For Use leaflet. Belzona further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognised standards (ASTM, ANSI, BS, DIN, ISO etc.). Since Belzona has no control over the use of the product described herein, no warranty for any application can be given.

AVAILABILITY AND COST

Belzona 4154 is available from a network of Belzona Distributors throughout the world for prompt delivery to the application site. For information, consult the Belzona Distributor in your area.

HEALTH AND SAFETY

Prior to using this material, please consult the relevant Material Safety Data Sheets.

MANUFACTURER

Belzona Polymeric Ltd.
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Belzona Inc.
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TECHNICAL SERVICE

Complete technical assistance is available and includes fully trained Technical Consultants, technical service personnel and fully staffed research, development and quality control laboratories.

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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