

PRODUCT SPECIFICATION SHEET

BELZONA 4141

FN10078



GENERAL INFORMATION

Product Description:

A two-component system containing high molecular weight polymer, filled with low density, non-metallic aggregate. This material is a lightweight, non-porous repair compound specifically designed for rebuilding severely damaged or worn vertical/overhead concrete and stone surfaces. The product can be applied up to 5 inches (127 mm) thick on a vertical surface and up to 3 inches (76 mm) thick on an overhead surface with minimal support during application. To ensure excellent adhesion to the substrate, a primer **Belzona 4911** (Magma TX Conditioner), is used with the product.

Application Areas:

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

- Spalled concrete
- Archways
- Bridges
- Refurbishment of decorative moldings
- Weathered stonework
- Window sills
- Walls
- Cosmetic repairs

APPLICATION INFORMATION

Working Life

Will vary according to temperature. At 77°F (25°C), use all mixed material within 20 minutes.

Cure Time

Allow to solidify for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

Volume Capacity

671 in³ (11,000 cm³) per 8 kg unit.

Base Aggregate Component

Appearance Damp sand
Color Gray or Stone
Density 0.80 g/cm³

Solidifier Component

Appearance Clear mobile liquid
Color Amber
Density 0.98 g/cm³

Mixing Ratio (Base : Solidifier)

by Weight 8 : 1
by Volume 13 : 1

Sag Resistance

At 68°F (20°C) material shows no signs of slump at 4 inches (100mm).

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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ABRASION

Taber

When tested in accordance with ASTM D4060 with a 1kg load, typical loss per 1,000 cycles is:

Dry (CS17 wheels) 0.03 in³ (530 mm³).

ADHESION

Positest Dolly Pull-Off (ASTM D4541)

Dry concrete 680 psi (4.69 MPa)*

Wet concrete 650 psi (4.48 MPa)*

* Substrate failure

CHEMICAL RESISTANCE

The material offers good resistance to a broad range of chemicals.

* For a more detailed description of chemical resistance properties, refer to relevant Chemical Resistance chart.

COMPRESSIVE PROPERTIES

Compressive Strength

Tested in accordance with ASTM D695 is typically 5,400 psi (37.2 MPa).

FLEXURAL PROPERTIES

Flexural Strength

Tested in accordance with ASTM D790 is typically 2,450 psi (16.9 MPa).

HEAT RESISTANCE

Heat Distortion Temperature (HDT)

Tested in accordance with ASTM D648 (264 psi fiber stress) is typically 113°F (45°C).

Heat Resistance

For many typical applications, the product is thermally stable to 300°F (150°C) dry and 140°F (60°C) wet, and down to -40°F (-40°C).

IMPACT RESISTANCE

Izod Impact Strength

Tested to ASTM D256 using notched test pieces is typically 1.02 kJ/m².

THERMAL PROPERTIES

Thermal Expansion

Tested to ASTM E228 the coefficient of thermal expansion is typically 30 ppm/°C.

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).

APPROVALS/ACCEPTANCES

The material has received recognition from organizations worldwide including:
U.S.D.A.

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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 4141 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 Polymerics Ltd.
Claro Road, Harrogate,
HG1 4DS, UK

Belzona Inc.
2000 N.W. 88th Court,
Miami, Florida, USA, 33172

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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