PRODUCT SPECIFICATION SHEET BELZONA 3121

FN10130



GENERAL INFORMATION

Product Description:

A two-component emergency repair and weatherproofing system for sealing all types of roof surfaces and structures against atmospheric attack even during adverse weather conditions. Designed for instant waterproofing at all times of the year. Used in conjunction with **Belzona 9331**, a synthetic reinforcing sheet used to bridge roof contours and control film thickness.

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:

Roofs
 Glazing bars
 Gutters
 Joints
 Parapet walls
 Seams

- Flashings

APPLICATION INFORMATION

Working Life

Will vary according to temperature. At 68°F (20°C) the usable life of mixed material is typically 2 hrs.

Coverage Rate

The theoretical coverage rate for a single layer is 21 sq.ft. (2.0 sq.m.) per litre when applied at a dry film thickness of 12.5 mil (317 micron) on a smooth surface. Refer to the IFU for a guide to practical coverage rates.

Cure Time

The system is water resistant immediately after application. Refer to the IFU for the time taken for it to develop ultimate adhesive and mechanical properties.

Base Component

Appearance Thixotropic liquid
Colour Grey
Density 1.61 - 1.63 g/cm³
Viscosity 86 - 94 poise at 104°F (40°C)

Solidifier Component

 Appearance
 Clear liquid

 Colour
 Yellow

 Density
 0.97 - 1.01 g/cm³

 Viscosity
 7.5 - 11.5 Cp at 68°F (20°C)

Mixed Components

Mixing Ratio by Weight (Base : Solidifier)

Mixing Ratio by Volume (Base : Solidifier)

3.6 : 1

Mixing Ratio by Volume (Base : Solidifier)

2.2 : 1

Sag Resistance 15 mils (375 microns) minimum

Belzona 9331 (MR7 Reinforcing Sheet)

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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Indium

CHEMICAL ANALYSIS

The mixed **Belzona 3121** has been independently analysed for halogens, heavy metals, and other corrosion-causing impurities, with the following typical results:

Total Concentration (ppm) Analyte Fluoride 35 Chloride 92 ND (<12) Bromide Sulphur 28425 Nitrite ND (<9) Nitrate ND (<9) 20.9 Zinc Arsenic 9.8 Antimony, Bismuth, Cadmium, Lead, Tin, Silver, Mercury, Gallium and

ND: Not Detected

ND (<3.0)

ELONGATION PROPERTIES

When tested to ASTM D412 (Die C) is typically:

 (i)
 Reinforced
 150%

 (ii)
 Unreinforced
 400%

FLEXIBILITY

Maintains flexibility down to -8°F (-22°C) passing ASTM D522 mandrel test at minimum 3.2mm diameter.

HARDNESS

Shore A

When determined in accordance with ASTM D2240, typical value will be:

35 after 24 hours cure at 68°F (20°C).

Belzona 3121 - Product Specification Sheet

TEAR STRENGTH

Tear Strength

When tested to ASTM D624 (Die C) is typically:

 (i)
 Reinforced
 180 pli (3229 kg/m)

 (ii)
 Unreinforced
 140 pli (2512 kg/m)

TENSILE PROPERTIES

Tensile Strength

When tested to ASTM D412 (Die C) is typically:

(i) Reinforced 800 psi (5.5 MPa) (ii) Unreinforced 1140 psi (7.9 MPa)

WATER VAPOR PERMEABILITY

When tested to ASTM D1653 water vapor permeability is typically:

17 g/m²/24 hrs for the standard reinforced system.

WEATHERING RESISTANCE

Approximately two thirds of the original elongation will be maintained after exposure to 1,000 hours of artificial weathering according to ISO 11341.

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 (O°C) and 86°F (30°C).

APPROVALS/ACCEPTANCES

The material has received recognition from organizations worldwide including:

U.S.D.A. LEAD SHEET ASSOCIATION

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WARRANTY

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 ensures that all its products are carefully manufactured to ensure the highest quality possible and are tested strictly in accordance with universally recognized 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 3121 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 Safety Data Sheets.

MANUFACTURER / SUPPLIER

Belzona Limited, Claro Road, Harrogate, HG1 4DS, UK Belzona Inc. 14300 NW 60th Ave, Miami Lakes, FL, 33014, USA

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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