

CI/SFB	December 2017		
	(47)	Vn6	
Uniclass	Pr_35_31_68_62		
Issue 02			



# Elastoflex Balcony & Walkway Surfacing Resin

## Liquid Applied Roof Waterproofing Systems

### Introduction

The Elastoflex Balcony & Walkway System is the latest product development in Icopal's range of liquid waterproofing systems. Designed primarily for use on balconies, pedestrian walkways and terraces, the Elastoflex Balcony & Walkway System offers specifier's and contractors the opportunity to waterproof accessible areas quickly and efficiently.

### Description

Elastoflex Balcony & Walkway Surfacing Resin is based on advanced Polymethyl Methacrylate (PMMA) liquid technology which cures to form a durable and hard-wearing finish. The resin is supplied in 24.83 kg container and is mixed on site with bauxite aggregate granules. A catalyst powder is added to the mix which begins the curing process. Note: The bauxite aggregate is omitted when applying the resin to vertical surfaces. The Elastoflex Balcony & Walkway Surfacing Resin is supplied in a Summer and a Winter grade for application at different times of the year.

### Intended Use

The Elastoflex Balcony & Walkway Surfacing Resin is designed for application over the cured Elastoflex Balcony & Walkway waterproof membrane. Elastoflex Balcony & Walkway Surfacing Resin is intended for use in locations where pedestrian foot traffic is anticipated, such as balconies, access walkways, footbridges and terraces, for example. On horizontal surfaces, the resin is mixed with Elastoflex Balcony & Walkway Granules to provide an anti-skid surface.

### Surface Preparation

Ensure the substrate is sound, clean, dry and free of frost, dust and debris, and any material which would hinder adhesion. For confirmation of specific deck type preparation, refer to the Elastoflex Balcony & Walkway Installation Guide.

### Application Conditions

The atmospheric application temperature range for the Elastoflex Balcony & Walkway Surfacing Resin is 0 to 30 °C. Winter and summer grades are manufactured to accommodate application throughout the year. The surface of the substrate should be clean and dry and must be 3 °C above the dew point. If the surface is below or at dew point temperature, moisture can form at the surface and affect coating adhesion and curing.

Personal Protective Equipment (PPE) should be worn.

### Properties

	Value
Resin Size	24.83 kg
Form	Liquid
Colour	6 Standard Colours
Catalyst Form	Powder
Catalyst Required	2 x 80 g (for summer grade) 3 x 80 g (for winter grade)
Workability period	10 - 25 minutes <sup>(1)</sup>
Walk on time	Approx. 60 minutes <sup>(1)</sup>
Membrane thickness	4 mm (horizontal)
Shelf Life	6 months

(1) Dependent on environmental conditions. Times given are reduced with higher (and increased with lower) surrounding and work surface temperatures.

### Installation Considerations

Consideration should be made to the use of PMMA based materials on site, in relation to using the product around doors, windows and ventilation/air-conditioning air intake units. Take all necessary safety precautions. Switch off air-conditioning and use fresh and exhaust air plant, etc. Mechanical ventilation may be required in enclosed areas.

### Application Method

Prior to application, thoroughly mix the surfacing resin using a mechanical paddle mixer. If applying the resin to the horizontal, thoroughly mix in the Elastoflex Balcony & Walkway Granules, ensuring the aggregate is fully wetted out. For vertical application the aggregate is not required.

When ready, add the correct amount of Elastoflex Balcony & Walkway Catalyst Powder (refer to installation guide for the appropriate amount of powder to add) to suit the operating temperature and grade of resin. Ensure the catalyst powder is fully mixed. Once the catalyst is added it initiates the 'working life' of the material. This time will depend upon the substrate, ambient, and material temperature and the amount of catalyst added. Mix only enough material that can be applied within the working life.

Pour out the material and spread evenly over the surface with a 4 mm serrated squeegee blade or trowel. To remove rake marks and create an even texture this should be followed over with a medium pile sleeve roller.

Once applied, the Elastoflex Balcony and Walkway Surfacing must be allowed to fully cure before trafficking. To prevent unnecessary contamination, it should be protected from other trades.

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### Application Rates

Application rates for the Elastoflex Balcony & Walkway Surfacing are as follows:

**Vertical:** Applied in two coats at a rate of 0.85 kg/m<sup>2</sup> per coat.

**Horizontal:** A single coat at a rate of 1.7 kg/m<sup>2</sup>.

### Cleaning

Clean tools immediately after use using appropriate acetone cleaner.

### Typical Specification

Roof waterproofing system to be Elastoflex Balcony & Walkway System, as supplied by Icopal Ltd, Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444. Fax: 0161 865 8433. Elastoflex Balcony & Walkway System to be applied by Icopal system approved contractors in accordance with manufacturer's current instructions.

### NBS Specification

Elastoflex Balcony & Walkway System can be specified using the following clauses;

**Clause:** J31/385.

**Product:** Elastoflex Balcony & Walkway Surfacing Resin.

**Manufacturer:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



### Quality Assurance

Elastoflex products are supplied under a Quality Management System approved to ISO 9001: 2008 by BSI Quality Assurance.



QMS: Q5556

### Storage

Containers should be stored in a dry and cool environment on a flat, level, and clean surface away from sources of ignition, including pilot lights and sparks. Protect the product against moisture, direct sunlight and extremes of temperature.

Keep containers tightly closed when not in use. In original unopened containers the shelf life is 6 months.

### Health and Safety

Health & Safety information supplied by manufacturer must be observed. Do not allow into the sewer system or ground.

### Technical Services

Specialist advice and design guidance on all matters relating to Elastoflex Balcony & Walkway System is freely available from our Technical Department at the address below.

### Availability

Item Code	Description	Colour
<b>Summer Grade</b>		
3102056	Elastoflex B&W Surfacing Resin (S)	Green
3102057	Elastoflex B&W Surfacing Resin (S)	Red
3102058	Elastoflex B&W Surfacing Resin (S)	Blue
3102059	Elastoflex B&W Surfacing Resin (S)	Mid-Grey
3102060	Elastoflex B&W Surfacing Resin (S)	Dark Grey
3102061	Elastoflex B&W Surfacing Resin (S)	Black
<b>Winter Grade</b>		
3102064	Elastoflex B&W Surfacing Resin (W)	Green
3102065	Elastoflex B&W Surfacing Resin (W)	Red
3102066	Elastoflex B&W Surfacing Resin (W)	Blue
3102067	Elastoflex B&W Surfacing Resin (W)	Mid-Grey
3102068	Elastoflex B&W Surfacing Resin (W)	Dark Grey
3102069	Elastoflex B&W Surfacing Resin (W)	Black

Item Code	Description	Size
3102062	Elastoflex B&W Surfacing Granules	2.5 kg
3102036	Elastoflex B&W Catalyst Powder	80 g

S: Summer grade. W: Winter grade.

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume; based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.