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Elastoflex Balcony & Walkway Waterproof Coating

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 Waterproof Coating is based on advanced Polymethyl Methacrylate (PMMA) liquid technology. It is applied in multiple layers in conjunction with a polyester reinforcing fleece. The reinforced coating cures rapidly to form a robust, seamless waterproofing membrane. The Elastoflex Balcony & Walkway Waterproof Coating is manufactured in a Summer and a Winter grade for application at different times of the year.

Intended Use

The Elastoflex Balcony & Walkway Waterproof Coating is designed for use as an exposed membrane in both new and refurbishment projects. It is intended to be covered with a hard wearing surfacing resin for use in locations where pedestrian foot traffic is anticipated, such as balconies, access walkways, footbridges and terraces, for example. The coating is available in a vertical grade (for details) and a horizontal grade (for field areas). The viscosity of the two product versions is altered to suit the relevant application.

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 Coating is -5 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

Resin Size	10 kg
Form	Resin
Application Types	Horizontal Grade (HG) Vertical Grade (VG)
Colour	Mid Grey
Catalyst	Liquid Catalyst
Workability period	10 - 25 minutes ⁽¹⁾
Overcoating time	Approx. 60 minutes ⁽¹⁾
Membrane thickness	2 mm (reinforced)
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 the application of the Elastoflex Balcony & Walkway Waterproof Coating, prime the substrate with the appropriate Elastoflex Balcony & Walkway Primer, and allow to cure.

When ready, add the correct dose of Elastoflex Balcony & Walkway Liquid Catalyst and mix well (refer to installation guide for the correct volume of liquid catalyst). Workability times do not begin until the catalyst is added to the resin. Once mixed do not replace the lid.

Apply the Elastoflex Balcony & Walkway Waterproof Coating above the primed substrate as the base layer at a rate of 1.5 kg/m² using a squeegee and medium pile roller.

Immediately apply Elastoflex Balcony & Walkway Reinforcing Fabric into the base layer and roll the surface with a dry roller, eliminating potential air bubbles and encouraging saturation of the fleece. Overlaps in the fleece should be a minimum 50 mm. Ensure the overlaps areas (above and below) are fully saturated to maintain continuity of the waterproofing system.

Allow the reinforced base layer to cure before applying a further top coat. It may be necessary to angle grind exposed edges prior to application of the top coat.

Once cured, apply Elastoflex Balcony & Walkway Waterproof Coating as the top layer at a rate of 1.5 kg/m². Lightly roll to remove excess material.

The total dry film thickness is 2mm.

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Application Rates

Application rates for the Elastoflex Balcony & Walkway Waterproof Coating is 3 kg/m² total membrane consumption.

Cleaning

Clean tools immediately after use using appropriate acetone cleaner.

Quality Assurance

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



QMS: Q5556

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 Coating 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: J31/353.

Product: Elastoflex Balcony & Walkway Coating.

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



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.

Disposal

Refer to Health & Safety data sheet.

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	Size
Horizontal Grade (HG)		
3102049	Elastoflex Balcony & Walkway Coating HG (Summer)	10 kg
3102050	Elastoflex Balcony & Walkway Coating HG (Winter)	10 kg
Vertical Grade (VG)		
3102051	Elastoflex Balcony & Walkway Coating VG (Summer)	10 kg
3102052	Elastoflex Balcony & Walkway Coating VG (Winter)	10 kg

Item Code	Description	Size
3102053	Elastoflex B&W Liquid Catalyst	5 kg
3102073	Elastoflex B&W Liquid Catalyst Syringe	each

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.