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Enviroflex™ Liquid Waterproof Coating

Liquid Applied Roof Waterproofing Systems

Introduction

Enviroflex™ Liquid Waterproofing System is a low odour, solvent-free, single component, fleece reinforced liquid roofing and waterproofing system, ideal for both commercial and domestic applications.

Description

Enviroflex™ Liquid Waterproof Coating is a single component polyurethane based, moisture curing coating applied in multiple layers in conjunction with a polyester reinforcing fleece. The coating is vapour permeable, and suitable for use on both new and remedial projects. Enviroflex™ Liquid Waterproof Coating is available in a mid-grey or white colour, and is supplied in 4 litre and 15 litre tins.

Intended Use

Enviroflex™ Liquid Waterproof System is suitable for use as an exposed membrane in both new and refurbishment projects, particularly where traditional methods of waterproofing may prove difficult.

It is intended for use where limited foot traffic is anticipated, but may also be used in conjunction with the Enviroflex™ anti-skid walkway system on projects involving more heavily trafficked areas, such as access routes, for example.

Surface Preparation

Ensure the substrate is sound, clean, dry and free of frost, dust and debris, and any material which would hinder adhesion. Residual moisture in concrete substrates must not exceed 5% in the upper 2 cm.

Application Conditions

Apply only when atmospheric and substrate temperatures are greater than 5 °C. 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 then moisture can form at the surface and affect coating adhesion and curing.

For optimal ease of application, the Enviroflex™ Liquid Coating should be above 12 °C.

Personal Protective Equipment (PPE) should be worn.

Properties

Container Size	4 L and 15 L
Form	Liquid
Standard Colour	Mid-Grey or White
System Application Rate	1.2 – 1.4 L/m ²
Workability period	60 minutes ₁
Rainproof after	Approx 20 minutes ₁
Can be walked on after	Approx 4 hours ₁
Cured after	72 hours ₁
Membrane thickness	minimum 2 mm

1. Dependant on environmental conditions. Values attained at 23 °C and 50% rel humidity. Times given are reduced with higher (and increased with lower) surrounding and work surface temperatures.

Coverage Rates

The Enviroflex™ System is applied 'wet-on-wet' allowing full membrane application in a single process.

The total application rate of Enviroflex™ Liquid Waterproof Coating should be approximately 1.2 to 1.4 L/m², depending on porosity and texture of substrate.

Application Method

Prior to the application of the Enviroflex™ Liquid Waterproof Coating, prime the substrate with an appropriate Enviroflex™ Primer, and allow to cure.

Coating Preparation: Once opened stir Enviroflex™ Liquid Waterproof Coating thoroughly. Be careful not to over stir the coating as over stirring can introduce air to the coating. Allow to settle for 5 minutes if air bubbles are visible within the coating. Where the consistency of the coating appears thick, place the container into a larger bucket of hot water – raising the temperature of the coating will improve viscosity.

Application: In accordance with the combined system coverage rates above, apply approximately 1/3rd of the Enviroflex™ Liquid Waterproof Coating above the primed substrate as the base layer using a brush or roller.

Immediately apply the Enviroflex™ Reinforcing Fabric into the base layer and roll the surface with a perlon roller, eliminating potential air bubbles. Overlaps in the reinforcing fabric should be a minimum 75 mm.

Apply immediately the remaining 2/3rd of Enviroflex™ Liquid Waterproof Coating above the reinforcing fabric as the top layer.

Roll out evenly until complete saturation is achieved. Ensure the overlap areas (above and below the overlapping fabric) are fully saturated to maintain continuity of the waterproofing system.

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Cleaning

Clean tools immediately after use. Uncured Enviroflex™ can be dissolved with mineral spirits. Wash hands after use.

Typical Specification

Roof waterproofing system to be Enviroflex™ Liquid Waterproofing System, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester, M32 0YL. The membrane is to be installed and sealed in accordance with the relevant codes of practice and with the manufacturer's instructions.

NBS Specification

Enviroflex™ Liquid Waterproof System can be specified using the following clauses;

Clause: J31/110; J31/120; J31/130

Product: Enviroflex™ System.

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



Quality Assurance

Enviroflex™ Liquid Waterproof System is supplied under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.



QMS: Q5556

Delivery

The product is delivered to site in containers packed on pallets, wrapped in polythene. Each container is marked with the manufacturer's name, product description and the appropriate hazard and risk labels.

Storage

Containers should be stored in a dry and cool environment on a flat, level, and clean surface. Protect the product against mechanical damage, rain and direct sunlight temperature.

Keep containers tightly closed when not in use. Coating can be stored unopened in a cool, frost-free place. For use by date – see label on pack.

Disposal

Liquid	EWC	08 04 09
Cured	EWC	08 04 10

Health and Safety

The material safety datasheets, hazard warnings and safety recommendations on the units must be observed during transport, storage, and application. Do not allow into the sewer system or ground.

Technical Services

Specialist advice and design guidance on all matters relating to Enviroflex™ systems is freely available from our Technical Department at the address below.

Availability

Description	Size
Enviroflex™ Liquid Coating Grey	4 Litre
Enviroflex™ Liquid Coating Grey	15 Litre
Enviroflex™ Liquid Coating White	4 Litre
Enviroflex™ Liquid Coating White	15 Litre

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.