



551 ER Membrane

Solvent based emergency roof coating reinforced with fibres for rapid waterproofing and leak sealing. Surface tolerant and showerproof within 15 minutes, even in damp or cold conditions.

- Emergency roof sealing for damp or cold conditions
- Cures at 5°C (41°F) and showerproof within 15 minutes
- Surface tolerant and suitable for manual preparation
- Reinforced, single component solvent based system

2025 Product Sheet



Typical Applications

551 ER Membrane is a solvent based, fibrous acrylic coating developed for emergency roof and gutter waterproofing. The system can be applied directly to damp, weathered, or manually prepared surfaces, making it ideal for reactive maintenance and in-situ repairs.

- Roofs
- Gutters
- Fibreglass structures

Cure times

Shower proof

| | |
|-----------|----------|
| 10°C/50°F | 30 mins |
| 20°C/68°F | 15 mins |
| 30°C/86°F | 7.5 mins |

Touch dry

| | |
|-----------|----------|
| 10°C/50°F | 24 hours |
| 20°C/68°F | 12 hours |
| 30°C/86°F | 6 hours |

Characteristics

Appearance

Single component Thixotropic acrylic emulsion

Solids Content

70%

Volume Capacity

740cc/kg

Sag Resistance

Nil at 1000 microns

Density

Mixed 1.35

Mechanical Properties

Elongation

Tested to ASTM D412 100%

Tensile Strength

Tested to ASTM D412
42kg/cm² (600psi)

Direct Pull Adhesion

Tested to ASTM D4541
16kg/cm² (230psi)

Water Vapour Permeability

Tested to ASTM D1653
2 x 10⁴ perm.cm

Heat Resistance

Resistant to dry heat up to 100°C (212°F) dependent on load.

Pack Sizes

This product is available in the following pack sizes:
5kg (1 US gallon)
20kg (4 US gallons)

Details & Legal

Quality

All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty

Resimac warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in this document.

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media. For more detailed information refer to the Resimac Technical Centre for advice.

Storage Life: 5 years if unopened and stored in normal dry conditions, 15–30°C (59–86°F)

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Application Guide

Coverage

5kg (11lbs) of fully mixed product will give the following coverage rates:

| | |
|-----------------------------------|----------------------------|
| 5m ² at 1000 microns | 54ft ² at 40mil |
| 2.5m ² at 2000 microns | 27ft ² at 80mil |

A. Surface Preparation

All roof materials:

- 1 Clear all areas of moss, lichen and debris by brushing or power washing and remove surface water and any contamination such as oil or grease and allow to dry as much as possible.
- 2 Application temperature should be between 5–35°C (40–95°F).
- 3 If using 551 ER Membrane as a long term waterproofing system for roof or gutter surfaces then an adhesion check must be carried out prior to application.

Health & Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product.

Before mixing and applying the material, please ensure you have read and fully understood all information.

B. Product Preparation

Prior to mixing, please ensure the following:

- 1 The material is at a temperature between 15–25°C (60–77°F).
- 2 The ambient & surface temperature is above 5°C (40°F).

Please contact the Resimac Technical Department on info@resimac.co.uk or call +44 (0) 1845 577498 to receive a full system recommendation.

C. Mixing

Single component (5kg/20kg):

- 1 551 ER Membrane is a single component material.
- 2 Agitate the product using an electric paddle mixer to ensure you have a consistent mix of acrylic emulsion.

D. Application

Brush or squeegee applications:

- 1 The coating can be applied in a single coat at 1–2mm (40–80mil) wet film thickness for emergency applications using a brush roller or squeegee.
- 2 For best results apply as a 2 coat system, apply 551 ER Membrane at 1mm (40mil) wet film thickness per coat using a brush or squeegee.

Quick Application Guide



Step 1

Ensure you have:
1 x (5kg/20kg) unit
1 x spatula
1 x rubber squeegee
1 x sweeping brush
1 x paintbrush
1 x drill & paddle mixer



Step 2

Open container and mix the contents until uniform and streak free.



Step 3

Apply in a single coat at 1-2mm (40-80mil) wet film thickness for emergency applications using a brush roller or squeegee.



Step 4

For best results apply as a 2-coat system, apply 551 ER Membrane at 1mm (40mil) wet film thickness per coat using a brush or squeegee.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

Legal Notice

The data contained within this Product Specification is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Resimac accepts no liability arising out of the use of this information or the product described herein.

Information & Enquiries

For more information and technical data please visit our website or contact us.

www.resimacsolutions.com

info@resimac.co.uk

+44 (0) 1845 577498

Resimac Ltd,
Unit B, Park Barn Estate,
Station Road,
Topcliffe,
Thirsk,
North Yorkshire,
YO7 3SE,
United kingdom

