

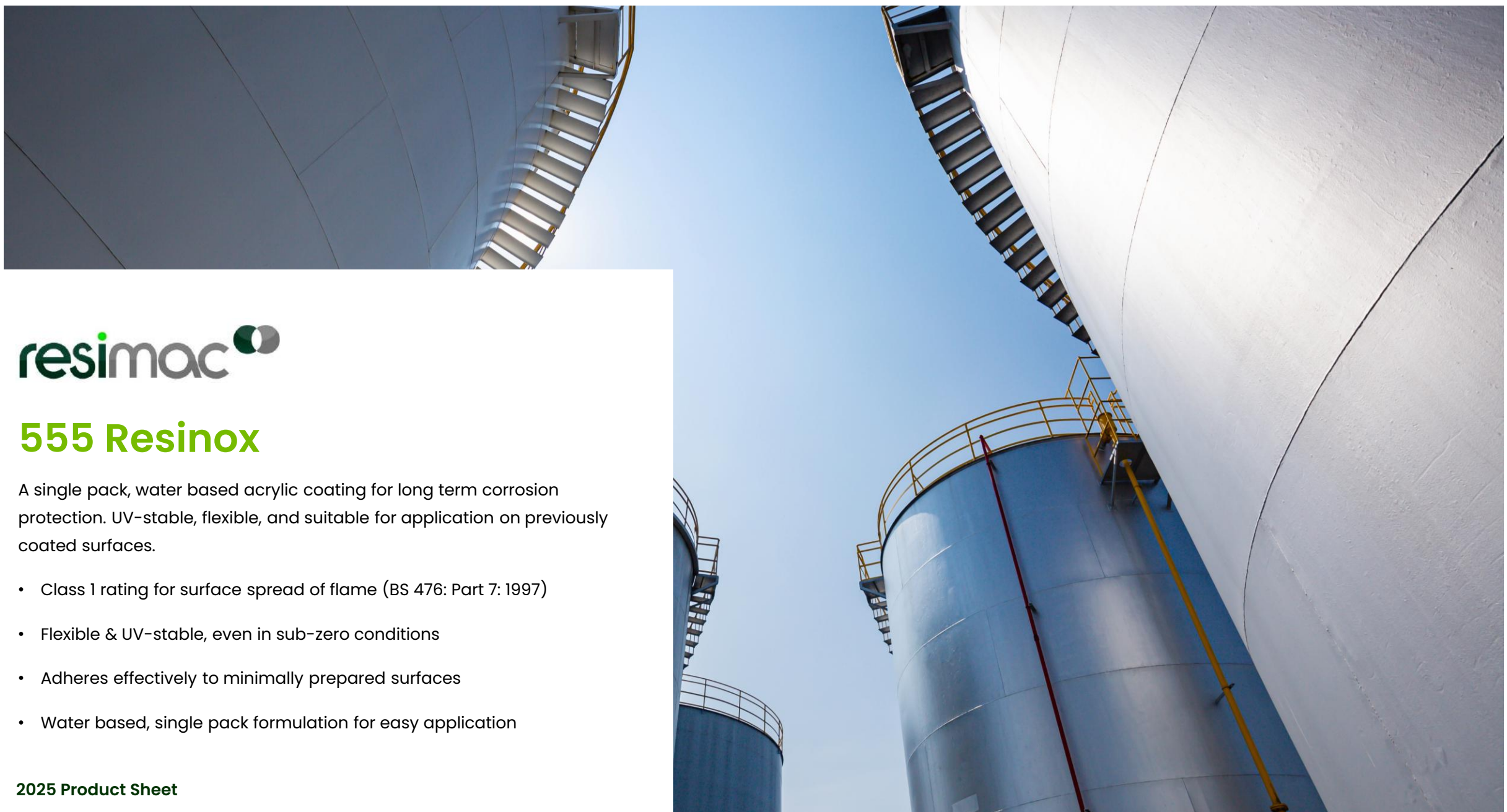


555 Resinox

A single pack, water based acrylic coating for long term corrosion protection. UV-stable, flexible, and suitable for application on previously coated surfaces.

- Class 1 rating for surface spread of flame (BS 476: Part 7: 1997)
- Flexible & UV-stable, even in sub-zero conditions
- Adheres effectively to minimally prepared surfaces
- Water based, single pack formulation for easy application

2025 Product Sheet



Typical Applications

555 Resinox is a high build, single pack acrylic coating formulated for corrosion protection of metallic and cementitious surfaces. Its water based composition ensures low odour and safe application, while its UV stability and flexibility allow it to perform even in sub-zero temperatures.

- Structural steel
- External tank surfaces
- Concrete structures

Cure times

Touch dry		Min overcoating time		Max overcoating time
10°C/50°F	3 hours	10°C/50°F	3 hours	Indefinite
20°C/68°F	2 hours	20°C/68°F	2 hours	
30°C/86°F	60 mins	30°C/86°F	60 mins	
40°C/104°F	30 mins	40°C/104°F	30 mins	

Characteristics

Appearance
Single component Thixotropic acrylic emulsion

Solids Content
65%

Volume Capacity
657cc/kg

Sag Resistance
Nil at 500microns

Density
Single component 1.25

Mixing Ratio
Single component

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

Coverage

20ltrs (5.3 US Gallon) of fully mixed product will give the following coverage rates:

50m² at 400 microns 536ft² at 16mil

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

Mechanical Properties

Corrosion Weathering

Tested to ASTM D4798
1500 hrs no cracks or blistering

Elongation

Tested to ASTM D412 230%

Corrosion Resistance

Tested to ASTM B117
5000 hrs Excellent

Impact Resistance

Tested to ASTM D244 110lb/ins

Classification of Spread of Flame

Class 1 rating for surface spread of flame (BS 476: Part 7: 1997)

Adhesion

Tensile Shear – tested to
ASTM 412 3.2N/ mm² (2750psi)

Heat Resistance

Resistant to dry heat up to 90°C
(194°F) dependent on load

UV Resistance

Tested to ASTM D4587
5000 hrs unaffected

Details & Legal

Quality

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

Food Contact

USDA compliant for incidental food contact.

Title 21, Food and Drugs, Chapter I, U.S. Code of Federal Regulations, FDA, Subchapter B – Food for Human Consumption, Section 175.300 (Resinous and Polymeric Coatings).

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.

Pack Sizes

This product is available in the following pack sizes:
20ltrs (5.3 US Gallon)

Application Guide

A. Surface Preparation

Metallic Substrates: Mechanical abrasion

- 1 All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
- 2 All surfaces must be mechanically abraded using handheld grinders to ISO 8501/4 ST3 (SSPC SP3 ST3).
- 3 Once abraded, the surface must be degreased and cleaned using MEK or similar type material.
- 4 All surfaces must be coated before gingering or oxidation occurs.

PLEASE NOTE: For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

Metallic Substrates: Hand tools

- 1 Wipe away any ponding water, oil or grease using a solvent wipe.
- 2 All surfaces must be cleaned using wire brush, metal file, coarse sandpaper etc.
- 3 Once abraded, the surface must be cleaned with solvent.

Metallic Substrates: Hydro-blasting

- 1 All surfaces must be hydro-blasted using clean water at 2,000psi + (130bar) to NACE 5 (SSPC SP13 WJ3-WJ1).
- 2 All surfaces must be coated before gingering or oxidation occurs.

New Concrete:

- 1** Allow new concrete to cure for a minimum of 21 days and treat to remove any surface laitance.
- 2** Check the moisture content of the concrete prior to coating (8% moisture content or below).
- 3** Lightly abrade the surface taking care not to expose the aggregate.
- 4** Clean all dust and debris from the surface and prime with 503 SPEP (low viscosity epoxy primer).
- 5** Apply 503 SPEP at 150 microns (6mil) WFT, leave to cure for 3 hours (20°C/68°F) before overcoating.

Existing Concrete:

- 1** If the concrete surface is contaminated, pressure wash using clean water.
- 2** Once the concrete is dry, mechanically abrade or scarify taking care not to expose the aggregate.
- 3** Clean all dust and debris from the surface and prime with 503 SPEP (low viscosity epoxy primer).
- 4** Apply 503 SPEP at 150 microns (6mil) WFT, leave to cure for 3 hours (20°C/68°F) before overcoating.

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 10°C (50°F).
- 3 The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

D. Application

Brush or roller application:

- 1 Pour the material into a paint kettle or paint tray.
- 2 Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with 555 Resinox.
- 3 The stripe coat must be approximately 100mm (4") wide, at 300 microns (12mil) wet film thickness.
- 4 Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the 1st coat of mixed product to all surfaces at 400 microns (16mil) wet film thickness.
- 5 Once the 1st coat of material has cured sufficiently, approximately 2 hours 20°C (68°F), apply a 2nd coat of material to all surfaces at 400 microns (16mil) wet film thickness.

C. Mixing

Mix the complete unit of material (20ltrs):

- 1 Agitate the product using an electric paddle mixer to ensure you have a consistent mix of acrylic emulsion.

Spray Application:

- 1 Spray application should be carried out by airless spray using a 30:1 ratio pump.
- 2 Spray pressure of 2000psi and a tip size of 15–21 thou should be used.
- 3 Apply the 1st coat of mixed product to all surfaces at 400 microns (16mil) wet film thickness.
- 4 Once the 1st coat of material has cured sufficiently, approximately 2 hours at 20°C (68°F), apply a 2nd coat of material to all surfaces at 400 microns (16mil) wet film thickness.

Quick Application Guide

Brush or roller application:



Step 1

Ensure you have:

1 x single component emulsion

1 x spatula

1 x brush

1 x slow speed drill and paddle



Step 2

Thoroughly mix the coating with the slow speed drill and paddle.



Step 3

Apply the coating at a minimum wet film thickness of 400 microns.



Step 4

Let the first coat become touch dry (approx. 30 minutes at 20°C (68°F)).



Step 5

Apply a second coat at 400 microns wet film thickness.

Quick Application Guide

Spray Application:



Step 1

Ensure you have:

1 x single component emulsion

1 x slow speed drill and paddle

1 x spray applicator



Step 2

Recommend spray set up:

- 30:1 minimum ratio pump
- 15-21 Thou tip
- 2000+ psi spray pressure



Step 3

Spray the coating onto the prepared surface at a wet film thickness of 400 microns.



Step 4

Let the first coat become touch dry, approx 2 hours at 20°C (68°F).



Step 5

Spray a second coat at 400 microns wet film thickness.

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

