RESICHEM 555 Resinox –
water based acrylic corrosion protection coating

Resichem 555 Resinox is a single pack water based high build acrylic coating. The product is supplied ready to use and is ideal for protecting metallic and cementitious surfaces subject to weathering and corrosion. The product is capable of long term corrosion protection on mechanically abraded or hydro-blasted surfaces.

- Single component water based acrylic
- UV stable & flexible once cured
- Apply to mechanical or hydro-blasted prepared surfaces
- 10 years + protection

Typical applications

Suitable for coating the following surfaces -

Structural steel external tank surfaces concrete structures

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.

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

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 Resichem 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.

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 Resichem 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.

Mixing

This product is single component, however please ensure the following:

1. The material is at a temperature between 15-25°C (60-77F°).
2. The ambient & surface temperature is above 10°C (50F°).
3. The ambient & surface temperatures are not less than 3°C (6°F) above the dew point.

Once these 3 checks have been met, please proceed with mixing the product.

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

Application

Brush or roller applications

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. The stripe coat must be approximately 100mm (4”) wide, at 300 microns (12mil) wet film thickness.
3. 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.
4. Once the 1st coat of material has cured sufficiently, approximately 30 minutes at 20°C (68F°), apply a 2nd coat of material to all surfaces at 400 microns (16mil) wet film thickness.

Spray Applications

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 30 minutes at 20°C (68F°), apply a 2nd coat of material to all surfaces at 400 microns (16mil) wet film thickness

Coverage Rates

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.

Cure Times

At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Touch Dry	30 minutes
Minimum overcoating time	30 minutes
Hard dry	24 hours
Full cure	7 days
Maximum overcoating time	Indefinite

Pack Sizes

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

Colour

Single component – White or light grey (standard colours), various colours on request

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 30 minutes at (20°C (68°F).
Maximum – indefinite

Storage Life

5 years if unopened and store in normal dry conditions (15-30°C/ 60-86F°)

Other Technical Documents

Safety Data Sheets	-	Single component material
Product Specification Sheet	-	Technical Performance Information
Quick Application guide	-	Roller & Spray applications

Health and Safety

Please ensure good practice is observed at all times. Protective gloves, goggles & a disposable coverall must be worn during the mixing and application of this product. Before mixing and applying the material ensure you have read the fully detailed Safety Data Sheet.

Legal Notice: