Resene Armourcote 510 is a high performance, self-priming epoxy mastic combining superb adhesion with true barrier properties. Will tolerate compromised surfaces such as handcleaned steel.

### Physical properties

- **Vehicle type**: Two component epoxy
- **Hardener**: Polyamide/amide
- **Pigmentation**: Chemically resistant
- **Pot life**: 1-2 hours at 21°C (standard hardener)
- **Mix ratio**: 1:1 (by volume)
- **Finish**: Semi-gloss
- **Colour**: Off-white, selected BS2660, BS5252 and Resene Total Colour System

#### Dry time (minimum)
- **Recoat time (minimum)**: Through: 16-24 hours at 21°C
- **Maximun with standard hardener**: 24 hours

#### Primer required
- **Primer required**: Not normally, however can be applied over Resene Armourzinc 125 (see Data Sheet RA24), Resene ArmourZinc 120 (see Data Sheet RA22), Resene Zincilate 10 (see Data Sheet RA20), Resene Zincilate 11 (see Data Sheet RA21) or inhibitive primers

#### Theoretical coverage
- **Volume solids**: 6.9 sq. metres per litre (125 microns DFT)
- **Recommended DFT**: 125-200 microns per coat
- **Usual no. of coats**: 1
- **Abrasion resistance**: Excellent
- **Solvent resistance**: Good
- **Heat resistance**: Up to 90°C (dry, continuous)
- **Chemical resistance**: Acids – fair; alkalis – excellent
- **Thinning and clean up**: Thin with Resene Thinner No.6
- **VOC**: Clean up with Resene Thinner No.12
- **Clean up with Resene Thinner No.12**: 104 grams per litre mixed

### Performance and limitations

#### Performance
1. Self-priming finish coat that is tolerant of minimum surface preparation.
2. May be applied over previously painted, or prepared rusty surfaces, or both.
3. Dry film thickness up to 200 microns per coat can be achieved with airless spray application.

#### Limitations
1. Will chalk when continuously exposed to sunlight and U.V. light. This chalking in no way impairs the coating’s performance. Chalking can be prevented by overcoating with a pigmented Resene Uracryl Series 400 topcoat.
2. Cure time and pot life are affected by temperature. For application below 10°C use Resene Armourcote 510 L.T Cure and Resene Thinner No.6; above 35°C use Resene Alumastic hardener and Resene Thinner No.11.
3. Not recommended for immersion in acids, alkalis or solvents.
4. Do not apply over thermoplastic coatings.
5. Not available in pure white.
6. Extended cure times are required before immersion service.

### Typical uses

- Bridges
- Chemical plants
- Concrete surfaces
- Food processing
- Plants
- Power plants
- Pulp and paper plants
- Repaints
- Structural steel
- Tank exteriors
- Waste/water treatment plants

The choice of hardener will affect the colour of cured Resene Armourcote 510 colours, more so for light pastel colours. In addition close matches to Resene architectural colours cannot be achieved in pale pastel colours.

*Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of Resene products. View Data Sheets online at www.resene.com/datasheets. If in doubt contact Resene.*
Armourcote 510 high solids epoxy

Surface preparation
Concrete
If oil or grease deposits are present degrease according to SSPC SP1 solvent cleaning. Leave new concrete to cure for a minimum of 28 days before painting. Concrete floors must be profiled by captive blasting, abrasive blasting, diamond grinding, or acid etching (see Data Sheet D83). Prepared surface must have a uniform surface texture exposing the aggregate resembling 180 grit sandpaper. If this is not achieved repeat profiling method until the required surface texture is achieved.

Concrete surfaces cured with curing compounds or contaminated with form oils must be completely cleaned by abrasive blasting. Acid etching is not acceptable as this procedure will not normally remove these compounds. After etching or abrasive blasting, fill holes, voids, etc by application of Resene Epox-O-Bond (see Data Sheet D808).

Galvanising
Remove oil and grease with Resene Roof Wash and Paint Cleaner (see Data Sheet D88) or Resene Emulsifiable Solvent Cleaner (see Data Sheet D804). Wash with copious amounts of freshwater. Allow to dry.

Repaints
Ensure all surfaces to be painted are dry and free from loose rust, dirt, dust, oil, grease and mould. When applying Resene Armourcote 510 over an existing coating system, a test patch is recommended to ensure compatibility.

Steel
Remove all loose rust, dirt, grease and salt deposits. Power tool clean to SSPC SP3 or hand tool clean to SSPC SP2. For severe environments, dry abrasive blast to a minimum of SSPC SP6 (Sa 2) and apply a Resene Zincilate (see Data Sheets RA20 and RA21) or Resene ArmourZinc primer (see Data Sheets RA22, RA23, RA24). For continuous immersion in fresh or salt water dry abrasive blast to achieve a minimum SSPC SP5 (Sa 3).

Residues and dust from old paint systems containing lead or chromate may be dangerous to the health of the operator and the environment. Ensure approved procedures are put in place to safeguard against this.

Application
Mixing
Base and hardener are mixed in a 1:1 ratio (by volume). Stir contents of each container separately using an explosion-proof mixer. Add total contents of hardener container to total contents of base. Mix thoroughly until uniformly blended.

Application
Airless spray - Standard airless equipment with a 30:1 or higher pump ratio and a 17 to 21 thou fluid tip is recommended. A small amount of thinner greatly reduces viscosity. Excessive thinning will cause running or sagging. If required judiciously thin with Resene Thinner No.6 to improve atomisation.

Apply a wet coat in even parallel passes overlapping each pass 50% to avoid holidays, pinholes and bare areas. Give special attention to welds, seams and sharp profiles. When applying Resene Armourcote 510 directly over inorganic zinc, zinc rich primers or porous surfaces, apply a mist coat of thinned product to minimise bubbling. Small areas can be touched up by brush but the high level of thinning required for brush application reduces desirable high build properties.

Safety precautions
Consult Safety Data Sheet for this product prior to use. Users should ensure that they are familiar with all aspects concerning safe application of this product. IF IN DOUBT, DO NOT USE THIS PRODUCT.