

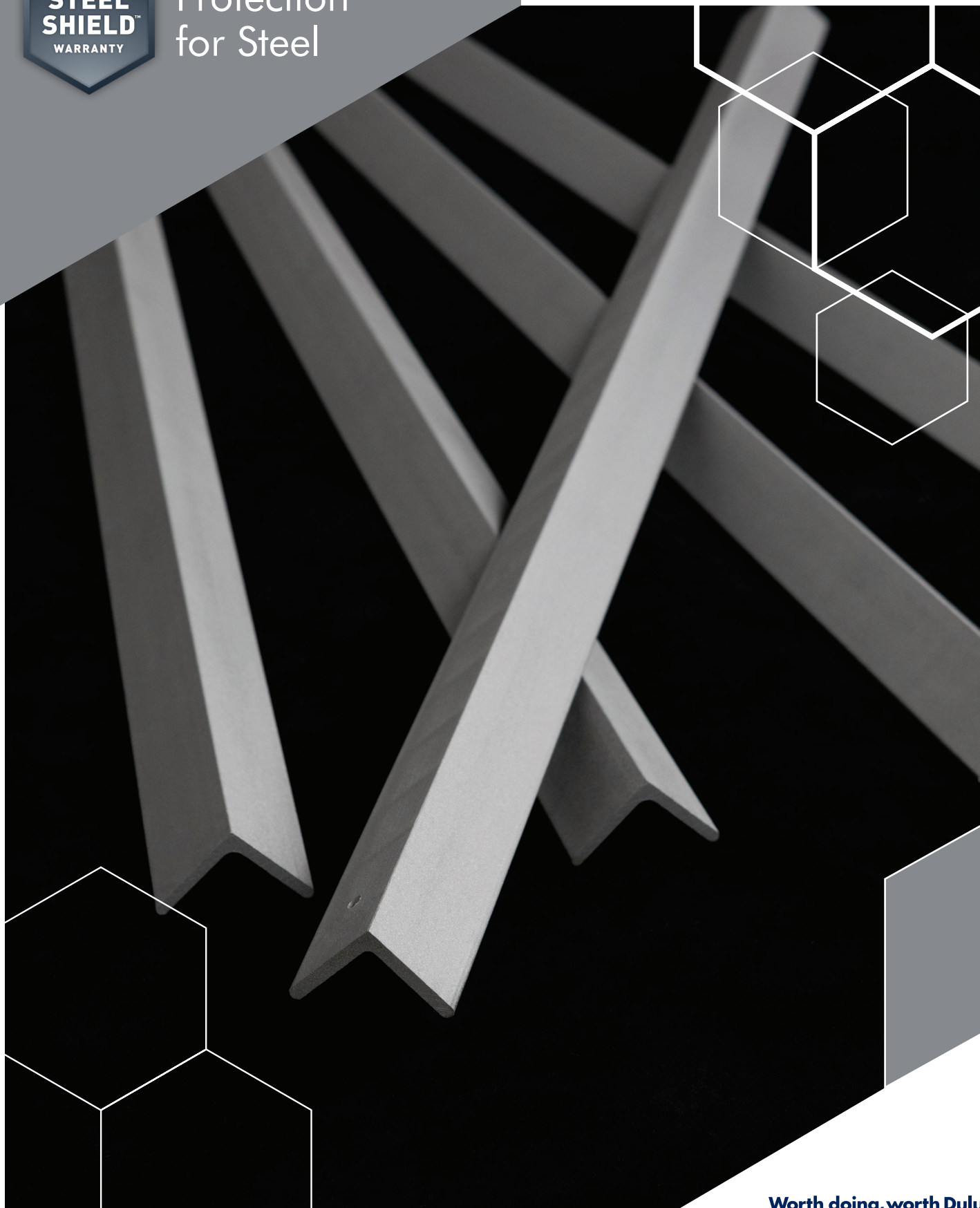
WARRANTY SOLUTIONS



Protection for Steel



POWDER & INDUSTRIAL COATINGS



Worth doing, worth Dulux.®

Worth doing. Worth Dulux.®






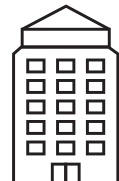

Dulux Powder Coatings are an ideal choice for the long term protection of mild steel items for your next project, and provide assurance through the issue of Steel Shield™ Warranties.



Suitable Substrates

The Steel Shield™ warranty will only be issued on the following substrates: mild steel, bright/semi bright steel, black/blue steel. All other steel types including galvanised coated steel are not warranted under the Steel Shield™ Warranty Program.

Warranties are available on approved specifications for the following project types:

| |  |  |  |  |  |  |  |
|----------|---|---|---|---|--|---|---|
| | NON-HABITABLE | RESIDENTIAL ← 4 LEVELS | RESIDENTIAL → 3 LEVELS | COMMERCIAL ← 4 LEVELS | COMMERCIAL → 3 LEVELS | PRESTIGIOUS COMMERCIAL | MONUMENTAL |
| INTERIOR | • | • | • | • | • | • | • |
| EXTERIOR | • | • | • | • | • | • | • |

- Non-Habitable projects are those that are not dwelling types. Examples can be furniture, bus shelters, signage etc.
- Residential properties are typically easy to maintain, given their height and access.
- High-rise projects are less sheltered from neighbouring buildings, raising their exposure and reducing their ease of maintenance.
- Monumental projects attract the most attention and have the highest standards required to uphold the reputation expected from landmark sites.

Warranty Performance

The Steel Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a corrosion warranty.

| Colour Warranty | Corrosion Warranty |
|--|---|
|  <p>The Steel Shield™ Colour warranty is your assurance that the colour integrity will be maintained.</p> <p>It is made up of two components:</p> <ul style="list-style-type: none"> • Fade¹ • Chalk² |  <p>The Steel Shield™ Corrosion warranty is your assurance that the substrate will not corrode. The powder coating will not corrode for the warranty period from the date the product is applied to the metal.</p> |

Terms and conditions apply

Dulux Steel Shield™ warranties are your assurance that the coating will not:

- ¹Fade (colour) – Colour fade testing will give a delta E (Hunter) laboratory reading less than five units from the original colour. In accordance with ASTM D2244.
- ²Chalk – not exceed a rating of 2 for whites & pastels and a rating of 3 for deep colours as assessed in accordance with AS1580.481.1.11 test method.

Colour warranties are achievable as long as the substrate is not corroded. Should corrosion occur the colour warranty is void.

The Steel Shield™ corrosion warranty is your assurance that the coating system will not corrode more than 5% in accordance with the degree of corrosion as a percentage contained in AS/NZS:2312.1.2014.

All Dulux premium powder coat products are backed by product specific Alumi Shield™ warranties. Below is an overview of the warranty periods by product available from Dulux.

| | Warranty | Fluoraset | Electro | Duratec | Duralloy | Precious |
|------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| Steel Shield™ Warranty | Steel Corrosion | Up to 10 Years | Up to 10 Years | Up to 10 Years | Up to 10 Years | Up to 10 Years |
| | Steel Colour | 30 Years | 15 Years | 20 Years* | 10 Years | 10 Years |

*Excluding Intensity - 15 Years

Product System and Choice

It is important to define your project and conditions correctly to ensure the correct standard of product is specified and the performance and warranty is able to be gained for your project.

Product Suitability by Project

Use the following table to help identify the product choice you have to gain a Steel Shield™ warranty on your project. Refer to the conditions information to determine the environment that your project will be exposed to.

| Project Details | Environment and Conditions | | Primer System | | Top Coat Choice | | | | | | | | | |
|-------------------------|----------------------------|--|----------------|----------------|------------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
| Project Type | Environment | Conditions | Zincshield | E-Prime | Fluoroset ¹ | | Electro ² | | Duratec ² | | Duralloy ³ | | Precious ³ | |
| | | | | | Corrosion Warranty | Colour Warranty | Corrosion Warranty | Colour Warranty | Corrosion Warranty | Colour Warranty | Corrosion Warranty | Colour Warranty | Corrosion Warranty | Colour Warranty |
| Monumental | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | | | | | | | | |
| Monumental | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | | | | | | | | |
| Monumental | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | | | | | | | | |
| Prestigious Commercial | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| Prestigious Commercial | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | | | | |
| Prestigious Commercial | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | | | | |
| Commercial Developments | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| Commercial Developments | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | | | | |
| Commercial Developments | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | | | | |
| Residential (>3 levels) | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| Residential (>3 levels) | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | | | | |
| Residential (>3 levels) | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | | | | |
| Residential (<4 levels) | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| Residential (<4 levels) | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | 5 or 10 Years | 10 Years | 5 or 10 Years | 10 Years |
| Residential (<4 levels) | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | 10 Years | 10 Years | 10 Years | 10 Years |
| Non Habitable | Exterior | Severe or Tropical (High to very high) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| Non Habitable | Exterior | Mild (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | 5 or 10 Years | 10 Years | 5 or 10 Years | 10 Years |
| Non Habitable | Exterior | Mild (Low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | 10 Years | 10 Years | 10 Years | 10 Years |
| All Projects | Interior | Moderate Interior (High) | ✓ | ✓ | 5 Years | 30 Years | 5 Years | 15 Years | 5 Years | 20 Years* | | | | |
| All Projects | Interior | Moderate Interior (Medium) | ✓ ⁴ | ✓ ⁵ | 5 or 10 Years | 30 Years | 5 or 10 Years | 15 Years | 5 or 10 Years | 20 Years* | | | | |
| All Projects | Interior | General Interior (Very low to low) | ✓ | | 10 Years | 30 Years | 10 Years | 15 Years | 10 Years | 20 Years* | 10 Years | 10 Years | 10 Years | 10 Years |

All Dulux powder product are NOT suitable in strongly acidic or caustic environments so PH must be between 5 and 9.

1. Fluoroset may be suitable in locations <10m from the high tide line e.g. harbours (contact Dulux for advice.)
2. Electro and Duratec are only suitable for coastal environments >10m from the high tide.
3. Duralloy and Precious are only suitable for coastal environments >100m from the high tide line.
4. In Mild (Medium) exterior and Moderate Interior (medium) environments a 5 year corrosion warranty is available with a Zincshield and the indicated topcoat system.
5. In Mild (Medium) exterior and Moderate Interior (medium) environments a 10 year corrosion warranty is available with a Zincshield, E-Prime and the indicated topcoat system.

*Duratec Intensity – Steel Colour Warranty 15 Years

Please refer to Interior and exterior environments close to liquids for warranty implications where powder coatings may be in close proximity to liquids other than the sea.

Design Considerations

In order to qualify for a Steel Shield™ warranty:

- Abrasive blast clean all steel surfaces to be painted in accordance with AS1627.4 to visual standard AS1627.9 Class 2.5 (equivalent to ISO8501-1, Sa 2.5: Very Thorough Blast-Cleaning). Use a non-metallic medium that will generate a surface profile of 35 to 65 microns (as tested to AS3894.5 Method A).
- Items must be stored in a area which is clean and dry after blasting.
- Items must be coated within 4 hours of blasting.
- Items to be coated must be planned and designed in accordance with AS/NZS 2312 Section 3.
- Please refer to a Dulux Duspec Specification for exact specification details at www.duspec.com.au

Conditions

Use the following table which references AS2312.1 and AS3715 to identify the environment, conditions and atmospheric corrosivity categories.

| Environment | Conditions | Corrosivity level & Zone | Former AS/NZ 2312 Category | Mild Steel Corrosion Rate ¹ | Example environments |
|-----------------------|-------------------|--------------------------------------|----------------------------|--|---|
| Exterior Environment: | Mild | Low (C2) Medium (C3) | B C | 1.3 - 25 25-50 | Arid, urban, inland city Industrial, geothermal ² and coastal |
| | Severe | High (C4), Very high (C5-M, C5-I) | D E-M, E-I | 50-80 80-200 | Sea shore (calm) Sea shore (surf), offshore Islands ³ & or heavy industrial |
| | *Tropical | Very high (T) | F | 80-200 | High, humid and monsoonal locations |
| Interior Environments | General Interior | Very low(C1) Low (C2) | A B | <1.3 1.3-25 | Dry interiors (eg offices, shops) Minor condensation (warehouses, sports halls) |
| | Moderate Interior | Medium (C3) High (C4) | C D | 25-50 50-80 | High moisture (food processing plants, breweries, dairies) Significant contamination (swimmings pools) |

*Tropical projects - It is recommended to speak to a DGL Account Manager or call the advice line for all projects in Tropical locations.

1. Corrosion rate is for uncoated steel ref AS2312.1.

3. Offshore islands that are not tropical include Waiheke, Stewart Island, Fraser Island etc.

2. Geothermal environments with a PH>5 and <9. For PH outside this consult Dulux.

4. Tropical islands include Australian Islands north of Mackay and Pacific islands such as PNG, Fiji, Samoa, Tonga.

Technical Requirements for Steel Shield™ Warranty

Interior and exterior environments close to liquids other than the sea

For powder coated assets close to liquids other than the sea, e.g. fences near swimming pools, fountains, bathrooms or furniture etc, please refer to the guidance below for your product options for your project.

| | ¹ Chemically Treated | Clean Tap, Fresh or Potable Water | Salt Water | Other |
|-----------|---------------------------------|-----------------------------------|------------|---|
| Fluoraset | ■ | ● | ■ | Seek advice from Dulux Call 13 24 99 |
| Electro | ■ | ● | ■ | |
| Duratec | ■ | ● | ■ | |
| Precious | ✓ | ■ | ✓ | |
| Duralloy | ✓ | ■ | ✓ | |

1. Please note chemically treated water includes antimicrobial treatments, e.g. in pools, anti-corrosive chemicals, and soapy water in bathrooms and showers.

■ Where indicated Steel Shield™ warranties are available on areas >than 2m from the liquid (ie outside the splash zone).

✓ Where indicated Steel Shield™ warranties are available on areas >than 5m from the liquid.

● Where indicated Steel Shield™ warranties are available any distance from the liquid.

All Dulux powder products are NOT suitable in strongly acidic or caustic environments so PH must be between 5 and 9.

Steel Shield™ warranties are not available if the powder coating is immersed in any liquid.

For more information on Steel Shield™ please call 13 24 99 or visit duluxpowders.com.au

Care and Maintenance

To ensure the life of your asset is maximised and to comply with Dulux warranty requirements, **a simple and regular maintenance program must be implemented** and recorded in line with the Dulux Care and Maintenance Brochure.

For more information please **Call 13 24 99 or visit duluxpowders.com.au/tech-advice**

Request a Specification

Our dedicated and knowledgeable specification consultants can help simplify the specification process, saving you time and money by ensuring you achieve the best coating specification for the job. They can provide:

- Documented project specific specifications.
- Written confirmation of your project's eligibility for a Steel Shield™ warranty.
- Design, coating system and colour advice.

Call 13 24 99 or visit duluxpowders.com.au

Dulux Accredited Powder Coaters

Only Dulux Accredited Powder Coaters are able to issue our Dulux Steel Shield™ warranties after demonstrating their capability to meet stringent quality conditions and international standards. Warranties are only valid when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions.



For more information visit duluxpowders/accredited



POWDER & INDUSTRIAL COATINGS

Advice Line

Our dedicated consultants can help simplify the specification process, saving you time and money by providing the right coating advice for your project.

Call 13 24 99

or visit www.duluxpowders.com.au

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