PRODUCT SOLUTIONS

DURATEC®

ZEUS®

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

Offices

Australia

Dulux Powder & Industrial Coatings
1-15 Pound Road West
Dandenong South VIC 3175
✆ (61) 3 8787 4500

New Zealand

Dulux Powder & Industrial Coatings
31B Hillside Road
Glenfield, Auckland, New Zealand
✆ (64) 9 441 8244

Singapore

DGL International Powder Coatings
No.100 Pasir Panjang Road
#02-10, Singapore 118518
✆ (65) 6 8301 010

China

DGL International Powder Coatings
Room 406, No.8, Lane 1977, JinShaJiang Road,
Shanghai, China, PC 200333
✆ (86) 21 6173 8800

PRODUCT SUMMARY

Product Features

- Warranties Alumi Shield™ and Steel Shield™ available - refer to Warranty Benefits.

Technology

- Super durable polyester thermosetting powder.

Look

- Solid finish.

Finish

- Matt, Satin and Gloss.

Colour range

- Available in a range of 16 core colours.

View the range in the Dulux World of Colour® Powder Coat Series Premium Colour Selector, on Aluminium Swatches, or online. Cards and swatches can be ordered from duluxpowders.com.au. If you cannot find the colour you require Dulux can offer a Custom Colour Service. Call 13 24 99 or visit duluxpowders.com.au.

Standards met

- Formulated to meet: AS 3715, AAMA 2603 and AAMA 2604

Securing your Warranty

Request a Specification

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• Documented project specific specifications.
• Written confirmation of your project’s eligibility for an Alumi Shield™ or Steel Shield™ Warranty.
• Design, coating system and colour advice.

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Dulux Accredited Powder Coaters

Only Dulux Accredited Powder Coaters are able to issue our Dulux Alumi Shield™ and 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 information visit duluxpowders.com.au/accredited

PRODUCT SOLUTIONS

The project:

Robert Menzies College
Location:

Marsfield, Australia

Photo credit: Allen Jack & Cottier Architects

PRODUCT SOLUTIONS 5

Product Benefits

- Colour retention
- Excellent colour retention.
- Durability
- Super durable finish.
- Look
- Long lasting solid finish.
Duratec Zeus are a range of subtle and neutral solid colours, delivered with warranty grade advanced super durable polyester thermosetting powder.

**Suitable Substrates**

Duratec Zeus is ideal for warranty grade applications over:

- Architectural aluminium including perforated and expanded aluminium.
- Steel (mild), bright/semi bright steel, black steel and blue steel.
- Galvanised steel, stainless steel, zincalume®, non ferrous metals.

**Warranted Benefits**

The Dulux Duratec Zeus range are supported by Dulux Alumi Shield™ and Dulux Steel Shield™ warranties when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions.

<table>
<thead>
<tr>
<th>Alumi Shield™ Warranty</th>
<th>Steel Shield™ Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Alumi Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a durability warranty (film integrity)</td>
<td>The Steel Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a corrosion warranty</td>
</tr>
</tbody>
</table>

**Terms and conditions apply**

- The Alumi Shield™ and Steel Shield™ colour Warranties are your assurance that Duratec Zeus will not:
  - **Fade** – Fade testing will not give a delta E (Hunter) laboratory reading greater than five units from the original colour.
  - **Chalk** – The rate of chalking will 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.

- The Alumi Shield™ durability warranty covers the powder coating peeling, cracking or flaking during the warranty period, from the date the product is applied to the metal.
- The Steel Shield™ corrosion warranty covers the powder coating corroding, peeling, cracking or flaking during the warranty period, from the date the product is applied to the metal. Corrosion will be no more than 5% in accordance with the degree of corrosion as a percentage contained in AS/NZS:2312.
- 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.com.au/warranties

**Meets International Standards**

With over 50 years of experience, the AAMA (American Architectural Manufacturer’s Association) is regarded as the standards leader for finishes on architectural aluminium. Dulux Duratec Zeus is formulated to meet: AAMA 2603 and AAMA 2604 as well as Australian standard AS 3715.

For more information visit aamanet.org
Project Suitability

Project Types

Duratec Zeus is ideal for most interior and exterior project types on steel and aluminium.

- 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.

Project Suitability - Aluminium

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

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Environment</th>
<th>Conditions</th>
<th>Duratec Zeus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monumental</td>
<td>Exterior</td>
<td>Mild, Severe or Tropical</td>
<td></td>
</tr>
<tr>
<td>Prestigious Commercial</td>
<td>Exterior</td>
<td>Mild, Severe or Tropical</td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td>Exterior</td>
<td>Mild, Severe or Tropical</td>
<td></td>
</tr>
<tr>
<td>Residential</td>
<td>Exterior</td>
<td>Mild, Severe or Tropical</td>
<td></td>
</tr>
<tr>
<td>Non-Habitable</td>
<td>Exterior</td>
<td>Mild, Severe or Tropical</td>
<td></td>
</tr>
<tr>
<td>All Projects</td>
<td>Interior</td>
<td>Moderate Interior</td>
<td></td>
</tr>
<tr>
<td>All projects</td>
<td>Interior</td>
<td>General Interior</td>
<td></td>
</tr>
</tbody>
</table>

- Alumi Shield™ warranty available

Duratec Zeus is only suitable for coastal environments >10m from the high tide and is NOT suitable in strongly acidic or caustic environments so pH must be between 5 and 9.

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.

Alumi Shield™ Warranties on perforated and expanded aluminium are available for Duratec Zeus in the following environments:

a. Interior: General Interior conditions (E-Prime base coat not mandatory), Moderate Interior (E-Prime base coat mandatory).
b. Exterior: Mild (E-Prime base coat not mandatory), Severe and tropical (E-Prime basecoat mandatory).

For more information about specifications on perforated and expanded aluminium visit duluxpowders.com.au

Conditions

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

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

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

1. Corrosion rate is for uncoated steel ref AS2312.1
2. Geothermal environments with a PH>5 and <9. For PH outside this consult Dulux.
3. Offshore islands that are not tropical include Waheke, Stewart Island, Fraser Island etc.
4. Tropical islands include Australian Islands north of Mackay and Pacific islands such as PNG, Fiji, Samoa, Tonga.
**Project Suitability - Steel**

Use the following table to help identify where Duratec Zeus can be applied on steel projects, the system required and the Dulux Steel Shield™ warranty level available. Refer to the conditions information to determine the environment that your project will be exposed to.

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Environment</th>
<th>Conditions (incl Corrosivity Level)</th>
<th>Primer System</th>
<th>Top Coat</th>
<th>Corrosion Warranty</th>
<th>Colour Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zincshield</td>
<td>E-Prime™</td>
<td>Duratec Zeus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prestigious Commercial</td>
<td>Exterior</td>
<td>Severe or Tropical (High to very high)</td>
<td>✓</td>
<td>✓</td>
<td>5 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Prestigious Commercial</td>
<td>Exterior</td>
<td>Mild (Medium)</td>
<td>✓</td>
<td>✓</td>
<td>5 or 10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Prestigious Commercial</td>
<td>Exterior</td>
<td>Mild (Low)</td>
<td>✓</td>
<td>✓</td>
<td>10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Commercial Developments</td>
<td>Exterior</td>
<td>Severe or Tropical (High to very high)</td>
<td>✓</td>
<td>✓</td>
<td>5 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Commercial Developments</td>
<td>Exterior</td>
<td>Mild (Medium)</td>
<td>✓</td>
<td>✓</td>
<td>5 or 10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Commercial Developments</td>
<td>Exterior</td>
<td>Mild (Low)</td>
<td>✓</td>
<td></td>
<td>10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Residential</td>
<td>Exterior</td>
<td>Severe or Tropical (High to very high)</td>
<td>✓</td>
<td>✓</td>
<td>5 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Residential</td>
<td>Exterior</td>
<td>Mild (Medium)</td>
<td>✓</td>
<td>✓</td>
<td>5 or 10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Residential</td>
<td>Exterior</td>
<td>Mild (Low)</td>
<td>✓</td>
<td>✓</td>
<td>10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Non Habitable</td>
<td>Exterior</td>
<td>Severe or Tropical (High to very high)</td>
<td>✓</td>
<td>✓</td>
<td>5 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Non Habitable</td>
<td>Exterior</td>
<td>Mild (Medium)</td>
<td>✓</td>
<td>✓</td>
<td>5 or 10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>Non Habitable</td>
<td>Exterior</td>
<td>Mild (Low)</td>
<td>✓</td>
<td></td>
<td>10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>All Projects</td>
<td>Interior</td>
<td>Moderate Interior (High)</td>
<td>✓</td>
<td>✓</td>
<td>5 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>All Projects</td>
<td>Interior</td>
<td>Moderate Interior (Medium)</td>
<td>✓</td>
<td>✓</td>
<td>5 or 10 Years</td>
<td>20 Years</td>
</tr>
<tr>
<td>All Projects</td>
<td>Interior</td>
<td>General Interior (Very low to low)</td>
<td>✓</td>
<td></td>
<td>10 Years</td>
<td>20 Years</td>
</tr>
</tbody>
</table>

Duratec Zeus is only suitable for coastal environments > 10m from the high tide and is NOT suitable in strongly acidic or caustic environments so pH must be between 5 and 9. 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.

1. In Mild (Medium) exterior and Moderate Interior (medium) environments a 5 year corrosion warranty is available with a Zincshield and Duratec Zeus system.
2. In Mild (Medium) exterior and Moderate Interior (medium) environments a 10 year corrosion warranty is available with a Zincshield, E-Prime and Duratec Zeus system.

*It is recommended to speak to a Dulux Account Manager or call the advice line on 13 24 99 for all C5 projects.

**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 to understand the warranty limitations in these environments.

<table>
<thead>
<tr>
<th>Duratec Zeus</th>
<th>Chemically Treated</th>
<th>Clean Tap, Fresh or Potable Water</th>
<th>Salt Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seek advice from Dulux Call 13 24 99</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Alumi Shield™ and Steel Shield™ warranties are available on areas >2m from the liquid (ie outside the splash zone).

   ● Where indicated Alumi Shield™ and 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.

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

**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 Powders Care and Maintenance brochure.

For more information refer to the Dulux Care and Maintenance brochure available at duluxpowders.com.au/tech-advice or call 13 24 99
Product Summary

Product Features

<table>
<thead>
<tr>
<th>Product Features</th>
<th></th>
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<tbody>
<tr>
<td>Warranties</td>
<td>Alumi Shield™ and Steel Shield™ available - refer to Warranty Benefits.</td>
</tr>
<tr>
<td>Technology</td>
<td>Super durable polyester thermosetting powder.</td>
</tr>
<tr>
<td>Look</td>
<td>Solid.</td>
</tr>
<tr>
<td>Finish</td>
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<td>Colour range</td>
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<td>Standards met</td>
<td>Formulated to meet: AS 3715, AAMA 2603 and AAMA 2604</td>
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Product Benefits

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<tr>
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