DURATION® T80
Premium Water Borne Fluorinated Polymer Finish

FEATURES
- EXCELLENT UV RESISTANCE AND GLOSS RETENTION
- VERY SHORT RECOAT TIME WHEN APPLYING WET ON WET
- VERY LOW VOC & LOW ODOR
- TINTABLE – AVAILABLE IN OVER 5,000 COLOURS
- VERY GOOD ANTI GRAFFITI PROPERTIES

USES
DURATION® T80 is a premium, two-component, water borne, fluorinated polymer finish that demonstrates excellent gloss and colour retention and is designed for applications where extended service periods are required. This is delivered via a system with a very low VOC content of only 23 grams per litre. DURATION® T80 is formulated to be used as part of complete DURATION® water borne protective coatings system for steel that is subject to sheltered or mild (C1-C3) corrosive environments including residential and commercial construction, hospitals, warehouses, schools, shopping centres and factories.

DURATION® T80 can also be used directly over Dulux® solvent borne epoxy primers, universal primers, epoxy intermediates and to aged, tightly adhering coatings subject to necessary solvent resistance tests and appropriate surface preparation.

SPECIFICATIONS

RESISTANCE GUIDE

| WEATHERABILITY | EXCELLENT gloss and colour retention on exterior exposure |
| HEAT RESISTANCE | Up to 120°C dry heat |
| SALTS | Unaffected by splash and spillage of most salt solutions |
| ACIDS | Suitable for splash and spillage exposure to most acids |

| SOLVENTS | Unaffected by splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons, esters and ketones |
| WATER | Excellent resistance to fresh and salt water but not suitable for immersion |
| ALKALIS | Good resistance to splash and spillage of most common alkalis |
| ABRASION | Good when fully cured |

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION
Two pack fluoropolymer

FINISH
Gloss and Satin

COLOUR
Extensive range of colours using the Dulux Authentic Colour® Low VOC Tint System.

COMPONENTS
Two

VOLUME SOLIDS
40% (Vivid white)

VOC LEVEL
23 g/L

FLASH POINT
N/A

POT LIFE
1 hour (4 litre kit, 25°C)

MIXING RATIO V/V
Part A : 5
Part B : 1

THINNER – BRUSH
Potable Water

THINNER – SPRAY
Potable Water

PRODUCT CODE
H25-04912 Gloss Vivid White Base
H25-16101 Gloss Ultra Deep Tone Base
H25-87663 Gloss Extra Bright Base
H26-04912 Satin Vivid White Base
H26-16101 Satin Ultra Deep Tone Base
H26-87663 Satin Extra Bright Base
976-H0182 Standard Hardener

PRIMERS
Epoxy primers, etch primers and universal metal primers

APPLICATION METHODS
Air spray, airless, roller and brush

SPREADING RATE
8.0 square metres per litre equals 50 μm dry film thickness

DURING CHARACTERISTICS AT 50 μm DRY FILM THICKNESS

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>Touch</th>
<th>Handle</th>
<th>Full Cure</th>
<th>OVERCOAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C</td>
<td>50%</td>
<td>45 Minutes</td>
<td>24 Hours</td>
<td>7 Days</td>
<td>24 Hours</td>
</tr>
</tbody>
</table>

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

1 The product can also be applied wet on wet, see the Application section for further advice.

2 If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

NOTE: Practical spreading rates will vary depending on such factors as colour, application method, ambient conditions and surface porosity and roughness.
This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

<table>
<thead>
<tr>
<th>SURFACE</th>
<th>ENVIRONMENT</th>
<th>PREPARATION GUIDE</th>
<th>SYSTEM</th>
<th>DFT (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL - NEW</td>
<td>Low–medium corrosivity (AS2312.1 Cat C1-C3)</td>
<td>Abrasive blast AS1627.4 Class 2.5</td>
<td>1st Coat</td>
<td>Duration®, P23</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat</td>
<td>Duration®, X21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat</td>
<td>Duration®, T80</td>
</tr>
<tr>
<td>GALVANISED STEEL</td>
<td>Exterior</td>
<td>Degrease and whip blast</td>
<td>1st Coat</td>
<td>Duration®, P23</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat</td>
<td>Duration®, X21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat</td>
<td>Duration®, T80</td>
</tr>
<tr>
<td>ALUMINIUM</td>
<td>Exterior/Interior</td>
<td>Clean, degrease and abrade surface</td>
<td>1st Coat</td>
<td>Duration®, P23</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat</td>
<td>Duration®, X21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat</td>
<td>Duration®, T80</td>
</tr>
<tr>
<td>MDF</td>
<td>Interior</td>
<td>Sand and dust down before and after first coat</td>
<td>1st Coat</td>
<td>Luxepoxy®, 4 White Primer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2nd Coat</td>
<td>Duration®, X21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3rd Coat</td>
<td>Duration®, T80</td>
</tr>
</tbody>
</table>

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

**SURFACE PREPARATION**

Specifiers should follow the surface preparation guidelines from the data sheet for the first coat selected. The surface must be sound and free from grease, oil, dirt, rust, loose paint and other contaminants. Dulux® recommends that surfaces be degreased with Gamlen CA 1 detergent (according to the manufacturer’s written instructions and all safety warnings) and then abraded to provide a key for the coating system.

**APPLICATION**

Mix part A and part B thoroughly using a power mixer until the contents of each part is uniform. Ensure bases have been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Mix the contents of both packs together thoroughly using a power mixer. **DO NOT RINSE OUT THE PART B (ISOCYANATE COMPONENT) CAN WITH WATER.** Then thin with water if required under mixing. Please ensure that mixing does not generate an excessive amount of foam. Let stand for 10 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before application.

**BRUSH/ROLLER**

Application can be improved by thinning the mixed product with up to 150 ml/litre with potable water. When brushing and rolling additional coats may be required to attain the specified thickness.

**SPRAY GENERAL**

The product can also be applied wet on wet, please refer to the following flash off times as a guide to apply additional coats wet on wet.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>10° C</th>
<th>25° C</th>
<th>40° C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>2 Hours</td>
<td>45 minutes</td>
<td>20 minutes</td>
</tr>
</tbody>
</table>

**CONVENTIONAL SPRAY**

When thinning the mixed product with up to 150ml/litre with potable water to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

Typical Set-up

- Graco AirPro 1.4mm (239542)
- Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.)
- Pressure at Gun: 380-410 kPa (55-60 p.s.i.)

**AIRLESS SPRAY**

Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 15 thou (0.38) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 150 ml/litre of potable water may be added to aid application.

**PRECAUTIONS**

This is an industrial product designed for use by experienced Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Australia. **Do not use any product past its pot life.** Product past its pot life may still appear fit for use but will develop substantially reduced gloss and may develop brittleness. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C, or where the surface temperature is below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Ensure you read and understand the safety precautions on the Material Safety Data Sheets for the two components before using. You should only thin the mixed product with potable water. **Do not add water to the PART B, isocyanate component.**

**CLEAN UP**

Clean all equipment with clean warm water immediately after use followed by DULUX® EPOXY THINNER (920-08925).

**OVERCOATING**

Degrease with Gamlen CA 1 according to the data sheet. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. High-pressure water wash at 8.3 to 10.3 MPa (1,200-1,500 p.s.i.) to remove chalk and dust. Abrade surface to provide a good key for the new coating. Epoxy must be abraded if recoated outside the recoat window.
DURATION® T80

SAFETY PRECAUTIONS

Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au

STORAGE

Both components are NOT classified as dangerous goods for transport or storage. Store in well ventilated bunded area under cover and away from sources of heat. Keep containers closed at all times.

HANDLING

As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING

Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.

FLAMMABILITY

This product is not flammable. On burning will emit toxic fumes.

WELDING

Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings a division of DuluxGroup (Australia) Pty Ltd
1956 Dandenong Road, Clayton 3168
A.B.N. 67 000 049 427

DuluxGroup (New Zealand) Pty Ltd
150 Hutt Park Road, Lower Hutt, NZ
A.B.N. 55 133 404 118

PACKAGING, TRANSPORT AND STORAGE

PACKAGING
Available in 4 litre and 20 litre packs

TRANSPORTATION WEIGHT
1.35 kg/litre (Average of components)

DANGEROUS GOODS
Part A: Non Dangerous Goods
Part B: Non Dangerous Goods

Any advice, recommendation, information, assistance or service provided by Dulux Australia in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this sheet so long as applications and application procedures are as recommended. Specific advice should be sought from Dulux for application in highly corrosive areas and for large projects to ensure proper performance.