

DURATION® T74

Premium Water Borne Polyurethane Finish

PC 860

- FEATURES**
- EXCELLENT UV RESISTANCE AND GLOSS RETENTION
 - SHORT RECOAT TIME - 3 HOURS AT 25°C
 - LOW VOC & LOW ODOUR COMPARED TO EQUIVALENT SOLVENT BORNE SYSTEMS
 - TINTABLE – AVAILABLE IN OVER 5,000 COLOURS
 - SMOOTH FINISH

USES DURATION® T74 is a premium, two-component water borne polyurethane coating that demonstrates excellent gloss and colour retention and is a low VOC and low odour alternative to solvent borne polyurethane topcoats.

DURATION® T74 is designed to be used as part of a 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® T74 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. | SOLVENTS | Unaffected by splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons, esters and ketones |
| HEAT RESISTANCE | Up to 120°C dry heat. | WATER | Excellent resistance to fresh and salt water but not suitable for immersion. |
| SALTS | Unaffected by splash and spillage of most salt solutions | ALKALIS | Good resistance to splash and spillage of most common alkalis |
| ACIDS | Suitable for splash and spillage exposure to most acids | ABRASION | Good when fully cured |

TYPICAL PROPERTIES AND APPLICATION DATA

| | | | | | |
|------------------|---|----------------------------|-----------------------------|--|-------------|
| CLASSIFICATION | Two pack polyurethane | | APPLICATION CONDITIONS | | |
| FINISH | High Gloss and Satin | | | Min | Max |
| COLOUR | Extensive range of colours using the Dulux Authentic Colour® Low VOC Tint System. | | Air Temp. | 10°C | 40°C |
| | | | Substrate Temp. | 10°C | 40°C |
| | | | Relative Humidity | | 85% |
| COMPONENTS | Two | | COATING THICKNESS (MICRONS) | | |
| VOLUME SOLIDS | 47% (Vivid white) | | | Min | Max |
| VOC LEVEL | 98 g/L | | | | Recommended |
| FLASH POINT | N/A | | Wet film per coat (µm) | 105 | 160 |
| POT LIFE | 1.5 hours (4 litre kit, 25°C) | | Dry film per coat (µm) | 50 | 75 |
| MIXING RATIO V/V | Part A : 4 Part B : 1 | | | | 105 |
| THINNER –BRUSH | Potable Water | | SUITABLE SUBSTRATES | Suitably primed steel, aluminium, zinc coated steel, concrete and MDF. | |
| THINNER –SPRAY | Potable Water | | | | |
| PRODUCT CODE | H20-04912 | Gloss Vivid White Base | PRIMERS | Dulux® epoxy primers, etch primers and universal metal primers | |
| | H20-16101 | Gloss Ultra Deep Tone Base | | | |
| | H20-87663 | Gloss Extra Bright Base | | | |
| | H21-04912 | Satin Vivid White Base | | | |
| | H21-16101 | Satin Ultra Deep Tone Base | | | |
| | H21-87663 | Satin Extra Bright Base | APPLICATION METHODS | Air spray, airless, roller and brush | |
| | 976-H0175 | Standard Hardener | | | |

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS*

| Temperature | Humidity | Touch | Handle | Full Cure | OVERCOAT | |
|-------------|----------|------------|---------|-----------|-----------------|------------------|
| | | | | | Min | Max ¹ |
| 25° C | 50% | 30 Minutes | 3 Hours | 7 Days | 3 Hours | 7 days |

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

¹ If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

SPREADING RATE ASSUMING NO LOSSES

9.4 square metres per litre equals 50 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as colour, application method, ambient conditions and surface porosity and roughness.

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TYPICAL SYSTEMS

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.

| SURFACE | ENVIRONMENT | PREPARATION GUIDE | SYSTEM | | DFT (µm) |
|------------------|--|---|--|--|-------------------------|
| STEEL - NEW | Low-Mid corrosivity (AS2312.1 Cat C1-C3) | Abrasive blast AS1627.4 Class 2.5 | 1 st Coat 2 nd Coat 3 rd Coat | Duration® P23 Duration® X21 Duration® T74 | 75 µm 50 µm 50 µm |
| GALVANISED STEEL | Exterior | Degrease and whip blast | 1 st Coat 2 nd Coat 3 rd Coat | Duration® P23 Duration® X21 Duration® T74 | 75 µm 50 µm 50 µm |
| ALUMINIUM | Exterior/Interior | Clean, degrease and abrade surface | 1 st Coat 2 nd Coat 3 rd Coat | Duration® P23 Duration® X21 Duration® T74 | 75 µm 50 µm 50 µm |
| CONCRETE | Exterior/Interior | Remove curing agents and other surface contaminants. Diamond grind or track blast | 1 st Coat 2 nd Coat | Duration® X21 Duration® T74 | 60 µm 60 µm |
| MDF | Interior | Sand and dust down before and after first coat | 1 st Coat 2 nd Coat 3 rd Coat | Luxepoxy® 4 White Primer Duration® X21 Duration® T74 | 50 µm 50 µm 50 µm |

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 primer or first coat selected. The surface must be clean, sound and free from moisture, grease, oil, dirt, rust, loose paint, and other contaminants and abraded to provide a suitable key for the coating system. If application of the second coat has exceeded the recoat window of the first coat (refer to data sheet) then the entire surface MUST be abraded. | | |
| APPLICATION | <div><div>1. Ensure bases have been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR.</div><div>2. Mix part A and part B using a power mixer until the contents of each part is uniform. Mix thoroughly, but not vigorously (to avoid the introduction of air).</div><div>3. Thin with water under power mixing before allowing to stand for 10 minutes.</div><div>4. DO NOT RINSE OUT THE PART B (ISOCYANATE COMPONENT) CAN WITH WATER.</div><div>5. Box all containers before use to ensure colour consistency. Remix thoroughly before application.</div></div> | | |
| 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. | | |
| CONVENTIONAL SPRAY | <div>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%</div> <div><div>Typical Set-up</div><div><div>Graco AirPro:</div><div>Pressure at Triton 308:</div><div>Pressure at Gun:</div></div><div><div>1.4mm (239542)</div><div>70-100 kPa (10-15 p.s.i.)</div><div>380-410 kPa (55-60 p.s.i.)</div></div></div> | | |
| 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 | <div>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.</div> <div>Do not add water to the PART B, isocyanate component.</div> | | |
| 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. Epoxies must be abraded if recoated outside the recoat window. | | |

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| 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 | Prior to use, keep containers closed at all times. 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. Once hardener has been added, do not reseal as pressure build up will occur. |
| 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. Once hardener has been added, do not reseal as pressure build up will occur. |
| 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 | | PACKAGING, TRANSPORT AND STORAGE | |
|--|---|----------------------------------|--|
| Dulux Protective Coatings a division of | | PACKAGING | Available in 4 litre and 20 litre packs |
| 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 | TRANSPORTATION WEIGHT | 1.35 kg/litre (Average of components) |
| | | DANGEROUS GOODS | Part A: Non Dangerous Goods Part B: Non Dangerous Goods |

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