

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	Recommended
VOC LEVEL	98 g/L					
FLASH POINT	N/A		Wet film per coat (µm)	105	160	105
POT LIFE	1.5 hours (4 litre kit, 25°C)		Dry film per coat (µm)	50	75	50
MIXING RATIO V/V	Part A : 4 Part B : 1					
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				
	H20-16101	Gloss Ultra Deep Tone Base				
	H20-87663	Gloss Extra Bright Base	PRIMERS	Dulux® epoxy primers, etch primers and universal metal primers		
	H21-04912	Satin Vivid White Base				
	H21-16101	Satin Ultra Deep Tone Base				
	H21-87663	Satin Extra Bright Base				
	976-H0175	Standard Hardener	APPLICATION METHODS	Air spray, airless, roller and brush		

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	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, but not vigorously (to avoid the introduction of air) using a power mixer. DO NOT RINSE OUT THE PART B (ISOCYANATE COMPONENT) CAN WITH WATER. Thin with water under power mixing before allowing to 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.		
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: Pressure at Triton 308: Pressure at Gun:	1.4mm (239542) 70-100 kPa (10-15 p.s.i.) 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. 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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