

# ACRATHANE® IF CLEARCOAT

Clear Isocyanate Free Catalysed Acrylic Finish

PC 217

- FEATURES**
- GOOD WEATHERING AND CHEMICAL RESISTANCE
  - GOOD ABRASION RESISTANCE AND TOUGHNESS
  - PROTECTS AGAINST GRAFFITI
  - CLEAR HIGH GLOSS AND CLEAR LOW SHEEN

**USES** ACRATHANE IF CLEARCOAT is a clear, colourless, two-component, catalysed acrylic formulated to impart either a high gloss or a low sheen finish to painted surfaces. It has good gloss retention and yellowing resistance, and imparts a tough, graffiti-resistant and cleanable finish to ACRATHANE IF and other coatings. It can be recoated with itself after simply ensuring the surface is clean and has been lightly abraded. ACRATHANE IF CLEARCOAT is isocyanate-free and suited to on-site application.

ACRATHANE IF CLEARCOAT is particularly suitable as the clear topcoat over ACRATHANE IF for the protection and decoration of MDF and timber joinery in a choice of gloss or low sheen finish. It is also suitable as the clear topcoat over ACRATHANE IF for facades, canopies and structural steelwork. ACRATHANE IF CLEARCOAT is also ideal as a graffiti resistant clear sealer for concrete, imparting a "wet look" to public spaces prone to graffiti.

**SPECIFICATIONS** APAS 1441/1 – assessed and confirmed to meet all requirements on specific certified products.  
APAS 1441/3 – assessed and confirmed to meet all requirements on specific certified products.

## RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Good gloss and colour retention on exterior exposure	<b>SOLVENTS</b>	Resists splash and spillage of most organic solvents
<b>HEAT RESISTANCE</b>	Up to 100°C dry heat	<b>WATER</b>	Excellent resistance to fresh and salt water but not suitable for immersion
<b>SALTS</b>	Unaffected by splash and spillage of neutral and alkaline salt solutions	<b>ALKALIS</b>	Good resistance to splash and spillage of most common alkalis
<b>ACIDS</b>	Suitable for splash and spillage of mild acids	<b>ABRASION</b>	Good when fully cured

## TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two Component Catalysed Acrylic		APPLICATION CONDITIONS			
FINISH	High Gloss and Low Sheen			Min	Max	
COLOUR	Clear colourless		Air Temp.	10°C	40°C	
			Substrate Temp.	10°C	40°C	
			Relative Humidity		85%	
COMPONENTS	Two		FILM THICKNESS (MICRONS)			
VOLUME SOLIDS	41 ± 2%			Min	Max	Recommended
VOC LEVEL	<580 g/L		Wet film per coat (µm)	120	170	145
FLASH POINT	15°C		Dry film per coat (µm)	50	70	60
POT LIFE	6 hours (4 litre kit, 25°C)		SUITABLE SUBSTRATES	Prepainted steel, aluminium, zinc coated steel, fibreglass or MDF and unpainted concrete		
MIXING RATIO V/V	Part A : 4	Part B : 1	PRIMERS	Not applicable		
THINNER –BRUSH	965-42166	Duthin 040	TOPCOATS	Not applicable		
THINNER –SPRAY	965-63023	Dulux Urethane Thinner	APPLICATION METHODS	Conventional, airless spray or air assisted spray		
PRODUCT CODE	446-30900	Clearcoat Gloss				
	446-H0100	Clearcoat Low Sheen				
	976-51087	Hardener				

## DRYING CHARACTERISTICS AT 60 µm DRY FILM THICKNESS\*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max <sup>1</sup>
10° C	50%	1.5 Hours	16 Hours	7 Days	16 Hours	Extended
15° C	50%	1 Hour	10 Hours	7 Days	10 Hours	Extended
25° C	50%	30 Minutes	7 Hours	7 Days	8 Hours	Extended

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

<sup>1</sup> When applying over epoxies, ensure that the application is carried out within 24 hours of applying the epoxy.

## SPREADING RATE ASSUMING NO LOSSES

**6.8 square metres per litre equals 60 µm dry film thickness**

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

# ACRATHANE IF CLEARCOAT

## 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	Mild – Moderate (AS2312.1 Cat 3) PUR2	Abrasive blast AS1627.4 Class 2.5	1 <sup>st</sup> Coat Duremax GPE ZP	125 µm
			2 <sup>nd</sup> Coat Acrathane IF	60 µm
			3 <sup>rd</sup> Coat Acrathane IF Clearcoat	60 µm
HARDWOOD & MDF	Interior	Sand and dust down before and after first coat	1 <sup>st</sup> Coat Luxepoxy 4 White Primer	50 µm
			2 <sup>nd</sup> Coat Acrathane IF	60 µm
			3 <sup>rd</sup> Coat Acrathane IF Clearcoat	60 µm
CONCRETE	Exterior/Interior	Remove release agents and other surface contaminants	1 <sup>st</sup> Coat Acrathane IF Clearcoat	60 µm
			2 <sup>nd</sup> Coat Acrathane IF Clearcoat	60 µm
			3 <sup>rd</sup> Coat Acrathane IF Clearcoat	60 µm

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

<b>SURFACE PREPARATION</b>	The surface must be free from grease, oil, dirt, rust and other contaminants. Dulux recommends that surfaces be degreased with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer's written instructions and all safety warnings. <b>Concrete:</b> Concrete must be at least 28 days old before coating. Remove all laitance, form release agents, curing compounds, oil, grease and other surface contaminants.		
<b>APPLICATION</b>	Mix each can thoroughly using a power mixer until the contents are uniform. Mix the contents of both packs together thoroughly with a power mixer and let stand for 10 minutes. Remix thoroughly before application.		
<b>BRUSH/ROLLER</b>	Suitable for small areas only. Application can be improved by thinning with up to 100 ml/litre with Duthin 040 (965-42166). When brushing and rolling additional coats may be required to attain the specified thickness		
<b>CONVENTIONAL SPRAY</b>	Thin up to 200ml/litre with Dulux Urethane Thinner (965-63023) to aid atomisation.		
	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.)
<b>AIRLESS SPRAY</b>	Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 15-17 thou (0.38-0.43mm) 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 100 ml/litre of Dulux Urethane Thinner (965-63023) may be added to ease application.		
<b>PRECAUTIONS</b>	This is an industrial product designed for use by experienced Protective 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 express written consent of Dulux Australia. Freshly mixed material must not be added to previously mixed material. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. The surface to be coated must be totally free of moisture and contaminants. When applying Acrathane IF (solid colours) on epoxy primers and intermediates prior to using Acrathane IF Clearcoat, ensure that the Acrathane IF is applied within 24 hours of applying the epoxy. Do not use this product without consulting a Dulux Protective Coatings Consultant.		
<b>CLEAN UP</b>	Clean all equipment with Dulux Urethane Thinner (965-63023) immediately after use.		
<b>OVERCOATING</b>	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 (1,200-1,500p.s.i.) to remove chalk and dust. Lightly abrade to provide a key for the new coating if necessary.		
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>		
<b>STORAGE</b>	Store as required for a flammable liquid Class 3 in a bonded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.		
<b>HANDLING</b>	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.		
<b>USING</b>	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.		
<b>FLAMMABILITY</b>	This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO <sub>2</sub> or dry chemical powder. On burning will emit toxic fumes.		
<b>WELDING</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.		

## COMPANY INFORMATION

Dulux Protective Coatings a division of

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## PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 4 litre packs
TRANSPORTATION WEIGHT	0.97 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263
	Part B: Class 3 UN 1263

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