

# LUXATHANE® MPX

## Matt Finish Recoatable Classic Polyurethane Topcoat

**PC 400**

- FEATURES**
- SMOOTH MATT FINISH
  - GOOD UV AND GLOSS RETENTION
  - EXCELLENT DRYING AND HANDLE PROPERTIES
  - LONG TERM RECOATABILITY

**USES** Luxathane® MPX is a matt finish, two-component acrylic polyurethane. It is designed for use in areas where an aesthetically pleasing, matt finish is desired. Luxathane® MPX is formulated for use in commercial and industrial environments where extended service periods are required. The matt finish is suitable for steelwork and facades of architectural and commercial projects, such as retail complexes and high-rise offices and apartments.

Luxathane® MPX can be used directly over Dulux® Protective Coatings range of primers and intermediate coatings.

### SPECIFICATIONS

#### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Very good gloss and colour retention on exterior exposure	<b>SOLVENTS</b>	Suitable for occasional splash and spillage of common solvents
<b>HEAT RESISTANCE</b>	Up to 120°C dry heat	<b>WATER</b>	Suitable for exposure to occasional splash and spillage of fresh and salt water but not suitable for immersion
<b>SALTS</b>	Unaffected by occasional splash and spillage of most salt solutions	<b>ALKALIS</b>	Suitable for occasional splash and spillage of most common alkalis
<b>ACIDS</b>	Suitable for occasional splash and spillage exposure to some acids	<b>ABRASION</b>	Good when fully cured

#### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Two pack acrylic polyurethane coating		<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Matt, 2-5 gloss at 60°			Min	Max	
<b>COLOUR</b>	White, Black, and a full range of tinted colours		<b>Air Temp.</b>	10°C	40°C	
<b>COMPONENTS</b>	Two		<b>Substrate Temp.</b>	10°C	40°C	
<b>VOLUME SOLIDS</b>	47 ± 2%		<b>Relative Humidity</b>		85%	
<b>VOC LEVEL</b>	<540 g/L		<b>COATING THICKNESS (MICRONS)</b>			
<b>FLASH POINT</b>	>23°C			Min	Max	Recommended
<b>POT LIFE</b>	4 hours (4 litre kit, 25°C)		<b>Wet film per coat (µm)</b>	110	150	130
<b>MIXING RATIO V/V</b>	Part A : 4	Part B : 1	<b>Dry film per coat (µm)</b>	50	70	60
<b>THINNER</b>	965-63023	Dulux® Urethane Thinner	<b>SUITABLE SUBSTRATES</b>	Suitably primed substrates, including steel, aluminium, zinc coated steel, and concrete.		
<b>THINNER -HOT WEATHER</b>	965-H0298	Duthin® 511 X-Slow Thinner	<b>PRIMERS</b>	Specified Dulux® Protective Coatings range of primers and intermediates.		
<b>PRODUCT CODE</b>	749-63001	Light Base	<b>APPLICATION METHODS</b>	Airless and conventional spray		
	749-63002	Deep Base				
	749-63003	Clear Base				
	749-00070	Black				
	749-63313	White				
	976-H0237	Standard Hardener				
	976-H0229	Part C Accelerator				

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

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT*	
					Min	Max
10° C	50%	90 Minutes	9 Hours	7 Days	9 Hours	Extended
15° C	50%	60 minutes	6 Hours	7 Days	6 Hours	Extended
25° C	50%	30 minutes	3 Hours	7 Days	3 Hours	Extended

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

#### SPREADING RATE 7.8 square metres per litre equals 60 µm dry film thickness

ASSUMING NO LOSSES

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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## STANDARD HARDENER WITH ACCELERATOR (PART C)

MIXING RATIO | Part C: 1 dose per 4 litre mixed kit

### COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	110	155	130
Dry film per coat (µm)	50	70	60

### APPLICATION CONDITIONS

	Min	Max
Air Temperature	10°C	30°C
Substrate Surface Temperature	10°C	30°C
Relative Humidity		85%

SOLIDS BY VOLUME	46 ± 2 %
VOC LEVEL	<500 g/L (White)
POT LIFE	3 hours (4 litre kit, 25°C)

## DRYING CHARACTERISTICS AT 60 µm DRY FILM THICKNESS\* (ACCELERATOR)

### OVERCOAT\*

Temperature	Humidity	Touch	Handle	Full Cure	Min	Max
10° C	50%	75 Minutes	6 Hours	7 Days	6 Hours	Extended
15° C	50%	50 Minutes	4 Hours	7 Days	4 Hours	Extended
25° C	50%	25 Minutes	3 Hours	7 Days	3 Hours	Extended

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

## SPREADING RATE 7.7 square metres per litre equals 60 µm dry film thickness

with Cold Cure Hardener  
assuming no losses

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

## 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	Medium–high corrosivity (AS2312.1 Cat C4) System PUR4	Abrasive blast AS1627.4 Class 2.5	1 <sup>st</sup> Coat Zincanode® 402	75 µm
			2 <sup>nd</sup> Coat Duremax® GPE	125 µm
			3 <sup>rd</sup> Coat Luxathane® MPX	60 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C2) System PUR2	Abrasive blast AS1627.4 Class 2.5	1 <sup>st</sup> Coat Durepon® EZP 2 <sup>nd</sup> Coat Luxathane® MPX	75 µm 60 µm
STEEL – NEW OR MAINTENANCE	Low corrosivity (AS2312.1 Cat C2) System PUR1	Abrasive blast AS1627.4 Class 2 or power tool clean AS1627.2 St 3	1 <sup>st</sup> Coat Durebild® STE 2 <sup>nd</sup> Coat Luxathane® MPX	125 µm 60 µm
CONCRETE	Exterior/Interior	Remove release agents and other surface contaminants	1 <sup>st</sup> Coat Durebild® STE 2 <sup>nd</sup> Coat Luxathane® MPX 3 <sup>rd</sup> Coat Luxathane® MPX	125 µm 60 µm 60 µm

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

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### 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. 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 to maximise adhesion.

### APPLICATION

Premix Part A thoroughly using a power mixer until the contents are 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 for a minimum of 2 minutes using a power mixer and a clean helical mixing blade. Box all containers before use to ensure colour consistency. Remix thoroughly before application.

<b>APPLICATION EQUIPMENT</b>	<b>Airless Spray: Graco e-Xtreme EX35 or equivalent</b> Thinning is not normally required but up to 50 ml/litre or 5% by volume of Dulux® Urethane Thinner (965-63023) or Duthin® 511 X-Slow Thinner (965-H0298) may be added to aid application. Apply in multiple wet coats overlapping each pass 50%.						
	Tip Orifice <b>0.011" – 0.015"</b> (280 - 380 microns)		Atomising Pressure <b>2,400 – 3,000 psi</b> (150 – 207 bar)		Mat'l Hose ID <b>3/8"</b> (9.5 mm)		Pump Manifold Filter <b>100 mesh</b> (149 microns)
<b>PRECAUTIONS</b>	<b>NOTE:</b> A 0.9 metre x 1/4" (6.35mm) whip hose was used at the end of the material hose.						
	<b>Air Spray: Graco Triton 308 or equivalent.</b> Thin 50ml/litre or 5% by volume of Dulux® Urethane Thinner (965-63023) or Dulux® Duthin® 511 X-Slow Thinner (965-H0298) maybe added to aid in application. Apply in multiple wet coats overlapping each pass 50%.						
	Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomising Pressure	Pot Pressure
Graco Air Pro or Equivalent	<b>2.2 mm (0.086)</b>	Graco 192318	<b>5/16" or 3/8"</b> (7.9 or 9.5 mm)	<b>3/8" or 1/2"</b> (9.5 or 12.7 mm)	<b>40 to 50PSI</b> (2.76 – 3.45 Bar)	<b>15 to 25PSI</b> (1.03 – 1.72 Bar)	
<b>PRECAUTIONS</b>	<b>NOTE:</b> Low temperatures and/or long hose lengths require higher material pressure.						
	<b>Roller and Brush:</b> Thin up to 10% to 15% Dulux® Urethane Thinner (965-63023) or Duthin® 511 X-Slow Thinner (965-H0298) to aid application if required. Recommended for small touch up areas only. Use synthetic woven nap cover. Do not use long nap covers. A thin nap roller cover such a 6mm is recommended. For brushes use a high quality natural or synthetic bristle brushes. Note: Two or more coats may be required to obtain recommended film thicknesses.						
<b>CLEAN UP</b>	Clean all equipment with Dulux® Urethane Thinner (965-63023) or Duthin® 511 X-Slow Thinner (965-H0298) immediately after use.						
<b>OVERCOATING</b>	Exiting coatings must be assessed for suitability in terms of their condition, adhesion to substrate and ability to accept additional coats. Appropriate tests are the latest versions of SSPC TU No.3, ASTM D 5064, and ASTM D 5065. Consult your local Dulux® Protective Coatings Consultant for specific surface preparation and coating system recommendations.						
<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 www.duluxprotectivecoatings.com.au</b>						
<b>STORAGE</b>	Store as required for a flammable liquid Class 3 in a bunded 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 must be worn while handling and using. Always wash hands before smoking, eating, drinking or using the toilet. Gas is evolved when isocyanate in the hardener reacts with water. If a closed container, of either hardener or catalysed paint, shows signs of internal pressure, cover it completely with a cloth and remove the lid slowly to prevent splashing or violent expulsion of the lid.						
<b>USING</b>	Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear a positive-pressure, air-supplied respirator. Users must comply with the provisions of the respective State Spray Painting Regulations at all times.						
<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, CO2 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.						
<b>COMPANY INFORMATION</b>				<b>PACKAGING, TRANSPORT AND STORAGE</b>			
Dulux Protective Coatings a division of				PACKAGING Available in 4 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 1.24 kg/litre (Average of components)		DANGEROUS GOODS Part A: Class 3 UN 1263 Part B: Class 3 UN 1866	
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