LUXATHANE® MPX

Matt Finish Recoatable Classic Polyurethane Topcoat — PC 400

FEATURES
- SMOOTH MATT FINISH
- VERY 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

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

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two pack acrylic polyurethane coating
FINISH	Matt, 2-5 gloss at 60º
COLOUR	White, Black, and a full range of tinted colours
COMPONENTS	Two
VOLUME SOLIDS	47 ± 2%
VOC LEVEL	<540 g/L
FLASH POINT	>23°C
POT LIFE	4 hours (4 litre kit, 25°C)
MIXING RATIO V/V	Part A : 4 Part B : 1
THINNER	965-63023 Dulux® Urethane Thinner
THINNER –HOT WEATHER	965-H0298 Duthin® 511 X-Slow Thinner
PRODUCT CODE	749-63001 Light Base 749-63002 Deep Base 749-63003 Clear Base 749-00070 Black 749-63313 White 976-H0237 Standard Hardener 976-H0229 Part C Accelerator

APPLICATION CONDITIONS

	Min	Max
Air Temp.	10°C	40°C
Substrate Temp.	10°C	40°C
Relative Humidity		85%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	110	150	130
Dry film per coat (µm)	50	70	60

SUITABLE SUBSTRATES	Suitably primed substrates, including steel, aluminium, zinc coated steel, and concrete.
PRIMERS	Specified Dulux® Protective Coatings range of primers and intermediates.
APPLICATION METHODS	Airless and conventional spray

DRYING CHARACTERISTICS AT 60 µm DRY FILM THICKNESS*

					OVERCOAT*	
Temperature	Humidity	Touch	Handle	Full Cure	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
ASSUMING NO LOSSES

7.8 square metres per litre equals 60 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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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
with Cold Cure Hardener
assuming no losses

7.7 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, 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	1st Coat 2nd Coat 3rd Coat	Zincanode® 402 Duremax® GPE Luxathane® MPX	75 µm 125 µm 60 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C2) System PUR2	Abrasive blast AS1627.4 Class 2.5	1st Coat 2nd Coat	Durepon® EZP 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	1st Coat 2nd Coat	Durebild® STE Luxathane® MPX	125 µm 60 µm
CONCRETE	Exterior/Interior (not suitable for foot or vehicle traffic)	Remove release agents and other surface contaminants	1st Coat 2nd Coat 3rd Coat	Durebild® STE Luxathane® MPX 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.

APPLICATION EQUIPMENT

Airless Spray: Graco e-Xtreme EX35 or equivalent 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	Atomising Pressure	Mat'l Hose ID	Pump Manifold Filter
0.011" – **0.015**" (**280** - **380** microns)	**2,400** – **3,000** psi (**150** – **207** bar)	**3/8**" (**9.5** mm)	**100** mesh (**149** microns)

NOTE: A 0.9 metre x ¼" (6.35mm) whip hose was used at the end of the material hose.

Air Spray: Graco Triton 308 or equivalent. 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	**2.2** mm (**0.086**)	Graco 192318	**5/16**" or **3/8**" (**7.9** or **9.5** mm)	**3/8**" or **1/2**" (**9.5** or **12.7** mm)	**40** to **50**PSI (**2.76** – **3.45** Bar)	**15** to 25PSI (**1.03** – **1.72** Bar)

NOTE: Low temperatures and/or long hose lengths require higher material pressure.

Roller and Brush: 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.

PRECAUTIONS

This is an industrial product designed for use by experienced Protective Coating applicators. Ensure that you read and understand the safety precautions on the relevant Safety Data Sheets before using. 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 rate of cure is dependent upon temperature. Where application conditions are outside the parameters stated in this Product Data Sheet, or where any variation to the recommendations are sought, contact your Dulux® Protective Coatings Consultant for written specifications prior to application. Freshly mixed material must not be added to previously mixed material. The recommended thinner MUST be used as some solvents react with the isocyanate hardener seriously degrading the life of the coating. Under no circumstances should water or non-specified thinner be allowed to contaminate the product. To minimise variations in gloss and appearance on an area to be coated, ensure that the Accelerator is used in all kits or not at all, ie do not paint half the area with the Accelerator and half without, as this may result in a slight difference in gloss. The Accelerator will speed up handle and dry times when used within the allowable temperature ranges quoted above. However, if lower than recommended application and substrate temperatures occur during curing, solvent entrapment and low gloss may occur due to the effects of condensation/dew. In hot weather, use Duthin® 511 X-Slow Thinner (965-H0298) to improve flow and to reduce dry spray.

CLEAN UP

Clean all equipment with Dulux® Urethane Thinner (965-63023) or Duthin® 511 X-Slow Thinner (965-H0298) immediately after use.

OVERCOATING

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.

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

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.

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 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.

USING

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.

FLAMMABILITY

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.

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
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 4 litre packs
TRANSPORTATION WEIGHT	1.24 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1866