

DUREKEM[®] MPP

Chemical Resistant Multi Purpose Phenolic Epoxy

PC A20

- FEATURES**
- EXCELLENT CHEMICAL RESISTANCE
 - EXCELLENT LINING FOR SOLVENTS AND FUELS
 - CAN BE USED DIRECT TO METAL
 - EXCELLENT BARRIER COATING
 - HIGH SOLIDS, LOWER SOLVENT EMISSION

USES DUREKEM[®] MPP is a two component, chemical resistant phenolic epoxy designed to provide corrosion protection to the internals of steel storage tanks.

Suitable for the storage of a wide range of materials including aliphatic and aromatic hydrocarbons and refined petroleum products.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and chalk on exterior exposure. Neither yellowing nor chalking detracts from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	SOLVENTS	Excellent lining for aliphatic and aromatic hydrocarbons and refined petroleum products. Resists splash and spillage of most solvents.
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to fresh, salt and de-ionised water. Suitable for immersion.
SALTS	Excellent resistance to splash and spillage of most salt solutions	ALKALIS	Excellent resistance to most common alkalis
ACIDS	Good resistance to most acids	ABRASION	Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Amine cured phenolic epoxy	APPLICATION CONDITIONS			
FINISH	Low Sheen		Min	Max	
COLOUR	White and Green Grey	Air Temp.	10°C	45°C	
		Substrate Temp.	10°C	45°C	
		Relative Humidity		85%	
COMPONENTS	Two	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	80% (White)		Min	Max	Recommended
VOC LEVEL	<166 g/L (White)	Wet film per coat (µm)	120	250	190
FLASH POINT	>23°C	Dry film per coat (µm)	100	200	150
POT LIFE	1.5 Hours (4 litre kit, 25°C)	SUITABLE SUBSTRATES	Abrasive blast cleaned steel		
MIXING RATIO V/V	Part A : 4 Part B : 1	PRIMERS	Zincanode [®] 402		
THINNER	920-08925 Dulux [®] Epoxy Thinner	APPLICATION METHODS	Conventional, airless spray or air assisted spray.		
PRODUCT CODE	745-00026 White 745-H0097 Green Grey 976-H0098 Hardener				

DRYING CHARACTERISTICS AT 150 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max ¹
10° C	50%	12 Hours	33 Hours	7 Days	28 Hours	4 Weeks
15° C	50%	8 Hours	22 Hours	7 Days	20 Hours	4 Weeks
25° C	50%	4 Hours	11 Hours	7 Days	8 Hours	4 Weeks

* These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying. Figures quoted are for non-immersion conditions. When used for immersion conditions the **maximum overcoat interval is 3 days** at 25°C. The coating **MUST** be fully cured and solvent free prior to being placed under immersion conditions.

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

SPREADING RATE 5.3 square metres per litre equals 150 µm dry film thickness

ASSUMING NO LOSSES

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

DUREKEM® MPP

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	Coastal (AS2312.1 Cat C5)	Abrasive blast AS1627.4 Class 2.5	1 st Coat Zincanode® 402 2 nd Coat Durekem® MPP 3 rd Coat Durekem® MPP	75 µm 150 µm 150 µm
STEEL	Internal tank lining	Abrasive blast AS1627.4 Class 3	1 st Coat Durekem® MPP 2 nd Coat Durekem® MPP	150 µm 150 µm

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

SURFACE PREPARATION	<p>Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Degrease with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer's written instructions and all safety warnings. Abrasive blast clean to a minimum of AS1627.4 Class 2.5.</p> <p>Immersed steel: Abrasive blast clean to AS1627.4 Class 3. Remove all dust by brushing or vacuum cleaning.</p>
APPLICATION	Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. Remix thoroughly before using.
BRUSH/ROLLER	Recommended only for spot patching on rivets, seams etc. When brushing and rolling additional coats may be required to attain the specified thickness.
CONVENTIONAL SPRAY	Thin up to 150ml/litre with Dulux® Epoxy Thinner (920-08925) to aid atomisation. Typical Set-up Graco AirPro: 2.2mm (239544) Pressure at Triton 308: 65-100 kPa (10-15 p.s.i.) Pressure at Gun: 385-420 kPa (55-60 p.s.i.)
AIRLESS SPRAY	Standard airless spray equipment such as a Graco Xtreme 45:1 or 56:1 with a fluid tip of 19–21 thou (0.48-0.53mm) 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 Dulux® Epoxy Thinner (920-08925) may be added to ease application.
PRECAUTIONS	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 used for immersion conditions the maximum overcoat interval is 3 days at 25°C. The coating MUST be fully cured and solvent free prior to being placed under immersion conditions. For best results in water immersion conditions replace Dulux® Epoxy Thinner (920-08925) with Dulux® CR Reducer (965-63020). Do not use this product for this application without consulting a Dulux® Protective Coatings Consultant.
CLEAN UP	Clean all equipment with Dulux® Epoxy Thinner (920-08925) immediately after use.
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.
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 bonded 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 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.
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 flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO ₂ 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
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 15 litre packs
TRANSPORTATION WEIGHT	1.13 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 3 UN 1263
	Part B: Class 8 UN 2734

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