

EPIGLOSS® 4 FINISH

Epoxy Gloss Finish

PC 223

FEATURES

- WITHSTANDS SEVERE CHEMICAL AND MARINE EXPOSURES
- TOUGH, ABRASION RESISTANT FINISH
- SUITABLE FOR CONTACT WITH FOODSTUFFS
- HIGH GLOSS FINISH

USES EPIGLOSS® 4 Finish provides a high gloss, easily maintained surface in areas of high abuse and under aggressive chemical exposure. It is recommended for the protection of plant in most chemical, industrial and petrochemical environments including alumina refineries, paper mills, oil refineries, food and beverage plants, abattoirs and canneries.

EPIGLOSS® 4 Finish is also a versatile maintenance coating for machinery, process equipment, canteens and amenity blocks and laboratories. For information on suitability for use as a food contact surface, refer to your Dulux® Protective Coatings Representative.

SPECIFICATIONS AS/NZS 3750.10

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	Resists splash and spillage of most hydrocarbon solvents, refined petroleum products and most common alcohols
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to fresh and salt water but not recommended for immersion (see precautions)
SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions	ALKALIS	Excellent resistance to splash and spillage of most common alkalis
ACIDS	Suitable for splash and spillage exposure to weak solutions of inorganic acids.	ABRASION	Excellent when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two pack epoxy gloss finish	APPLICATION CONDITIONS		
FINISH	High Gloss	Min	Max	
COLOUR	White and MTO factory made colours	Air Temp.	10°C	40°C
		Substrate Temp.	10°C	40°C
		Relative Humidity		85%
		Concrete Moisture		<6%
COMPONENTS	Two	COATING THICKNESS (MICRONS)		
VOLUME SOLIDS	50% (White)	Min	Max	Recommended
VOC LEVEL	<440 g/L (White)	Wet film per coat (µm)	80	150
FLASH POINT	>23°C	Dry film per coat (µm)	40	75
POT LIFE	8 hours (4 litre kit, 25°C)	SUITABLE SUBSTRATES	Suitably primed steel, aluminium, galvanised steel, concrete and MDF	
MIXING RATIO V/V	Part A : 2 Part B : 1	PRIMERS	Most Dulux® two pack primers.	
THINNER	920-08925 Dulux® Epoxy Thinner	TOPCOATS	Not applicable	
PRODUCT CODE	732-89893 White 976-89894 Hardener	APPLICATION METHODS	Brush, roller, conventional, airless spray, air assisted spray or HVLP	

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max ¹
10° C	50%	8 Hours	22 Hours	7 Days	22 Hours	3 Days
15° C	50%	5 Hours	12 Hours	7 Days	12 Hours	2 Days
25° C	50%	2 Hours	7 Hours	7 Days	8 Hours	2 Days

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

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

SPREADING RATE

ASSUMING NO LOSSES

10.0 square metres per litre equals 50 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, 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	Internal chemical	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat	Zincanode® 402		75 µm
			2 nd Coat	Epigloss® 4 Finish		50 µm
			3 rd Coat	Epigloss® 4 Finish		50 µm
STEEL – NEW	Internal chemical	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat	Durepon® P14		75 µm
			2 nd Coat	Epigloss® 4 Finish		50 µm
			3 rd Coat	Epigloss® 4 Finish		50 µm
CONCRETE	Interior	Remove release agents and other surface contaminants	1 st Coat	Durebild® STE (thin 5-10%)		125 µm
			2 nd Coat	Epigloss® 4 Finish		50 µm
			3 rd Coat	Epigloss® 4 Finish		50 µm
HARDWOOD & MDF	Interior	Sand and dust down before and after first coat.	1 st Coat	Luxepony® 4 White Primer		50 µm
			2 nd Coat	Epigloss® 4 Finish		50 µm
			3 rd Coat	Epigloss® 4 Finish		50 µm
ALUMINIUM	Interior	Clean, degrease and abrade surface	1 st Coat	Luxepony® 4 White Primer		50 µm
			2 nd Coat	Epigloss® 4 Finish		50 µm
			3 rd Coat	Epigloss® 4 Finish		50 µm

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

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CHEMICAL RESISTANCE

The resistance table below is a guide to the performance of fully cured EPIGLOSS® 4 Finish when applied according to specifications.

CHEMICAL	PERMANENT EXPOSURE	INTERMITTENT EXPOSURE	CHEMICAL	PERMANENT EXPOSURE	INTERMITTENT EXPOSURE			
SOLVENTS								
Aviation gasoline	Excellent	Excellent	Nitric acid 5%	Excellent	Excellent			
Ind. Methylated Spirits	Excellent	Excellent	Nitric acid 10%	Fair	Satisfactory			
Acetone	Fair	Satisfactory	Sulphuric acid 10%	Satisfactory	Satisfactory			
Amyl acetate	Fair	Satisfactory	Sulphuric acid 50%	Poor	Satisfactory			
Benzene	Excellent	Excellent	Hydrochloric acid 20%	Satisfactory	Excellent			
Butyl acetate	Excellent	Excellent	Hydrochloric acid conc.	Poor	Satisfactory			
Butyl alcohol	Excellent	Excellent	Phosphoric acid 20%	Fair	Excellent			
Cellosolve	Fair	Excellent	Acetic acid 20%	Satisfactory	Excellent			
Cyclohexanol	Fair	Excellent	Acetic acid 50%	Satisfactory	Excellent			
Diacetone alcohol	Fair	Satisfactory	Acetic acid glacial	Poor	Poor			
Dibutyl phthalate	Excellent	Excellent	Chromic acid 25%	Poor	Satisfactory			
Ethyl acetate	Fair	Satisfactory	Citric acid 10%	Excellent	Excellent			
Ethanol	Excellent	Excellent	Formic acid 40%	Poor	Poor			
Ethylene diamine	Poor	Poor	Lactic acid 10%	Poor	Poor			
Ethylene glycol	Excellent	Excellent	Naphthenic acid	Excellent	Excellent			
Heptane	Excellent	Excellent						
Methyl ethyl ketone	Poor	Satisfactory	OILS & FATS					
Methanol	Fair	Excellent	Lubricating oil	Excellent	Excellent			
Methylene chloride	Poor	Poor	Diesel Oil	Excellent	Excellent			
Propane	Excellent	Excellent	Crude oil	Excellent	Excellent			
Solvent naphtha	Excellent	Excellent	Raw linseed oil	Excellent	Excellent			
Toluene	Excellent	Excellent	Coconut oil	Excellent	Excellent			
Trichloroethylene	Fair	Excellent	Caster oil	Excellent	Excellent			
White spirit	Excellent	Excellent	Peanut oil	Excellent	Excellent			
Xylene	Excellent	Excellent	Palm oil	Excellent	Excellent			
Styrene Monomer	Excellent	Excellent	Soybean oil	Excellent	Excellent			
Vinyl acetate monomer	Poor	Poor	Fatty acids	Poor	Fair			
ALKALI & SALTS								
Caustic Soda 5%	Excellent	Excellent						
Caustic Soda 5% Hot	Excellent	Excellent	DETERGENTS					
Caustic Soda 40%	Excellent	Excellent	Teepol	Poor	Excellent			
Ammonia	Poor	Fair	Detergent Alkylate	Excellent	Excellent			
Common Salt 5%	Excellent	Excellent						
Common Salt 5% 100°C	Satisfactory	Excellent	MISCELLANEOUS					
Sodium carbonate	Excellent	Excellent	Butadiene	Excellent	Excellent			
Sodium hypochlorite	Satisfactory	Excellent	Bromine	Poor	Poor			
Bleaching liquid	Satisfactory	Excellent	Creosote	Poor	Poor			
Acetic acid glacial	Poor	Poor	Cresylic acid	Poor	Poor			
Chromic acid 25%	Poor	Satisfactory	Formaldehyde 40%	Poor	Fair			
Citric acid 10%	Excellent	Excellent	Glycerine	Excellent	Excellent			
Formic acid 40%	Poor	Poor	P.V.A. latex	Fair	Excellent			
Lactic acid 10%	Poor	Poor	Ethylene Diamine	Poor	Fair			
Naphthenic acid	Excellent	Excellent	Diethylene triamine	Poor	Fair			
			Phenol (liquid)	Poor	Fair			
COMPANY INFORMATION								
Dulux Protective Coatings a division of 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		PACKAGING	Available in 6 litre packs				
			TRANSPORTATION WEIGHT	1.26 kg/litre (Average of components)				
			DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263				

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