

ENVIROPOXY® WBE

Water Borne Two Pack Acrylic Epoxy Finish

PC 295

- FEATURES**
- LOW ODOUR – EASY WASH UP WITH WATER
 - EXCELLENT APPLICATION PROPERTIES
 - GOOD GLOSS AND COLOUR RETENTION
 - SUITABLE FOR USE OVER A WIDE RANGE OF SUBSTRATES
 - TINTABLE - AVAILABLE IN AN EXTENSIVE RANGE OF PASTEL COLOURS

USES ENVIROPOXY® WBE is a water borne two pack acrylic epoxy topcoat that has been locally developed specially for Australasian conditions. ENVIROPOXY® WBE displays superior gloss retention and resistance to chalking and yellowing when compared to traditional solvent based epoxies.

The low odour of ENVIROPOXY® WBE makes it ideal for areas such as hospital operating theatres and wards, school classrooms, aged care facilities, wineries, pharmaceutical plants and the food and beverage industry. Specific uses include walls, ceilings, doors and door jambs in high demand areas.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Good gloss and colour retention on exterior exposure. Some colours may chalk on exterior exposure	SOLVENTS	Good resistance to splash and spillage of aromatic and aliphatic hydrocarbon solvents and alcohols
HEAT RESISTANCE	90°C continuous dry heat 120°C intermittent dry heat	WATER	Excellent resistance to fresh and salt water but not suitable for immersion
SALTS	Excellent resistance to neutral, acid and alkali salts	ALKALIS	Excellent resistance to splash and spillage weak solutions of most common alkalis
ACIDS	Suitable for splash and spillage exposure to weak solutions of inorganic acids	ABRASION	Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two Component	APPLICATION CONDITIONS			
FINISH	Semi Gloss		Min	Max	
COLOUR	White and an extensive range of pastel colours using the DECORAMA® tint system	Air Temp.	10°C	40°C	
		Substrate Temp.	10°C	40°C	
		Relative Humidity		85%	
		Concrete Moisture		<10%	
COMPONENTS	Two	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	38% (White)		Min	Max	Recommended
VOC LEVEL	<50 g/L (White, untinted)	Wet film per coat (µm)	105	160	130
FLASH POINT	Water based	Dry film per coat (µm)	40	60	50
POT LIFE	8 hours (4 litre kit, 25°C)				
MIXING RATIO V/V	Part A : 9 Part B : 1	SUITABLE SUBSTRATES	Suitably primed steel, aluminium, zinc coated steel, concrete, CFC and plasterboard		
THINNER	Water	PRIMERS	Dulux® single pack and two pack primers		
PRODUCT CODE	714-84638 White/Light Base 976-84639 Hardener	TOPCOATS	Not applicable		
		APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray		

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max ¹
10° C	50%	1.5 Hours	8 Hours	7 Days	8 Hours	4 Weeks
15° C	50%	1 Hours	6 Hours	7 Days	6 Hours	4 Weeks
25° C	50%	30 Minutes	4 Hours	7 Days	4 Hours	4 Weeks

*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 7.6 square metres per litre equals 50 µm dry film thickness

ASSUMING NO LOSSES

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	Low corrosivity (AS2312 Cat C1)	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat Durepon® P14 2 nd Coat Enviropoxy® WBE	75 µm 50 µm
HARDWOOD	Interior	Sand and dust down before and after first coat	1 st Coat Dulux® Acrylic Primer Undercoat 2 nd Coat Enviropoxy® WBE 3 rd Coat Enviropoxy® WBE	30 µm 50 µm 50 µm
PLASTERBOARD	Interior	Dust down before painting	1 st Coat Dulux® Acrylic Sealer Undercoat 2 nd Coat Enviropoxy® WBE 3 rd Coat Enviropoxy® WBE	30 µm 50 µm 50 µm
COMPRESSED FIBRE CEMENT	Exterior/Interior	Dust down before painting	1 st Coat Dulux® Sealer Binder 2 nd Coat Enviropoxy® WBE 3 rd Coat Enviropoxy® WBE	30 µm 50 µm 50 µm
ALUMINIUM	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat Luxepoxy® 4 White Primer 2 nd Coat Enviropoxy® WBE 3 rd Coat Enviropoxy® WBE	50 µm 50 µm 50 µm

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

SURFACE PREPARATION	Specifiers should follow the surface preparation guidelines from the data sheet for the primer or first coat selected. The surface must be sound and free from grease, oil, dirt, rust, loose paint and other contaminants and abraded to provide a suitable key for the coating system.
APPLICATION	Mix each can 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 with a power mixer and let stand for 10 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before application.
BRUSH/ROLLER	Apply two even coats of the mixed material to the prepared surface. Thin with up to 200ml/litre of clean potable water to ease application. Additional coats may be required to attain the specified thickness.
CONVENTIONAL SPRAY	Prior to using the spray equipment, flush with Dulux® Epoxy Thinner followed by fresh warm water. Up to 200ml/litre of clean potable water can be added to aid application. Typical Set-up Graco AirPro: 1.8mm (239543) Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.) Pressure at Gun: 380-410 kPa (55-60 p.s.i.)
AIRLESS SPRAY	Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 17-21 thou (0.43-0.53mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Up to 200ml/litre of clean potable water can be added to aid 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® representative 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 material that has been mixed for some time. 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.
CLEAN UP	Clean all equipment with clean warm water followed by 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 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 not flammable. 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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DuluxGroup (New Zealand) Pty Ltd
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 4 litre packs
TRANSPORTATION WEIGHT	1.28 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Non Dangerous Goods Part B: Non Dangerous Goods

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