Dulux®
PROTECTIVE COATINGS

DURAFLEX™ 2

Silicone Copolymer Gloss Enamel — PC 655

FEATURES

- EXCELLENT GLOSS RETENTION AND CHALKING RESISTANCE – FAR SUPERIOR TO STANDARD ALKYD COATINGS
- FASTER DRYING THAN STANDARD SILICONE ALKYD ENAMELS & LONG OIL ALKYDS
- FULL GLOSS FINISH
- TINTABLE – AVAILABLE IN OVER 5,000 COLOURS
- SINGLE PACK PRODUCT
- EXCELLENT APPLICATION PROPERTIES

USES

DURAFLEX™ *2* is a newly developed high gloss, single pack, air-drying, silicone alkyd enamel. It offers greatly improved drying times over existing silicone alkyd enamels, thus providing faster turn-around and removing handling issues associated with slow drying coatings.
DURAFLEX™ *2,* being a silicone alkyd enamel, provides vastly superior weathering properties to that of conventional alkyd enamels
DURAFLEX™ *2* has been formulated for use within the COLORFAST™ Industrial Colour System, thus offering an extensive, easy to obtain colour range.
The silicone modification of alkyd enamel coatings has been found to be particularly effective in resisting dirt pick-up from diesel fumes and coal and iron ore dust. Typical areas of use include tank farms, doors, transmission towers, bridge structures and the exteriors of commercial and light industrial buildings.

SPECIFICATIONS

RESISTANCE GUIDE

HEAT RESISTANCE	Up to 90°C dry heat.
WEATHERABILITY	Good gloss and chalk resistance on exterior exposure.
SOLVENTS	Resists splash and spillage of aliphatic and aromatic hydrocarbons.
ACIDS	Suitable for splash and spillage exposure to weak solutions of acids.
ALKALIS	Not recommended where fumes, splash or spillage may occur.
SALTS	Unaffected by splash and spillage of neutral and acid salt solutions.
WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure.
ABRASION	Good when fully cured.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Silicone alkyd enamel
FINISH	Full Gloss
COLOUR	White and a full range of tinted colours.
COMPONENTS	One
SOLIDS BY VOLUME	46% (Light Base)
VOC LEVEL	<410 g/L (White)
FLASH POINT	>1°C
POT LIFE	Not applicable
MIXING RATIO (V/V)	Single Pack

THINNER	**Brush**		Mineral Turpentine
	Spray	965-63034	DUTHIN® 340 Spray Thinner

PRODUCT CODE	823-63001	Light Base
	823-63002	Deep Base
	823-63003	Clear Base
	823-63143	White

APPLICATION CONDITIONS	Min	Max
Air Temperature	10°C	45°C
Substrate Surface Temperature	10°C	45°C
Relative Humidity		85%

	Min	Max	Recom.
Wet film per coat (microns)	90	130	110
Dry film per coat (microns)	40	60	50

SUITABLE SUBSTRATES	Suitably primed steel, aluminium, zinc coated steel, concrete, fibreglass or MDF.
PRIMERS	Alkyd and two pack epoxy primers
APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray.

Drying characteristics at 50 microns dry film thickness

Temperature	Humidity	Touch	Handle	Full Cure	Overcoat Min§	Overcoat Max*
25° C	50%	90 Min	3 Hours	7 Days	24 Hours	7 Days

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

§ Overcoating can occur up to 1 hour after initial application or after 24 hours. Failing to observe these limits may result in "frying". If in doubt test a small inconspicuous area first. Allow longer times under cold conditions.

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

TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 9.2 sq. metres per litre corresponds to 50 microns dry film thickness assuming no losses.
Practical spreading rates will vary depending on such factors as method and conditions of application and surface roughness.

DURAFLEX™ *2*

TYPICAL SYSTEMS

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE	SYSTEM		DRY FILM THICKNESS
STEEL	Hand or Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 1	1st Coat 2nd Coat	LUXAPRIME® Zinc Phosphate DURAFLEX™ *2*	75 Microns 50 Microns
HARDWOOD & MDF	Sand and dust down before and after first coat.	1st Coat 2nd Coat	DULUX® Acrylic Primer Undercoat DURAFLEX™ *2*	35 Microns 50 Microns
ALUMINIUM FIBREGLASS	Clean, degrease and abrade surface	1st Coat 2nd Coat	LUXEPOXY® 4 White Primer DURAFLEX™ *2*	50 Microns 50 Microns

SURFACE PREPARATION

It is recommended that specifiers follow the guidelines for surface preparation from the data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials.

APPLICATION

Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Ensure bases have been tinted to the correct colour before use – DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF AN INCORRECT COLOUR. Box all containers before use to ensure colour consistency. Remix thoroughly before using.

BRUSH/ROLLER

Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with mineral turpentine to ease application. When brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL SPRAY

Thin up to 100ml/litre with DUTHIN® 340 Spray Thinner (965-63034) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

Typical Set-up

Graco Delta Gun:	1.4mm (239542)
Pressure at Pot:	70-100 kPa (10-15 p.s.i.)
Pressure at Gun:	340-410 kPa (50-60 p.s.i.)

AIRLESS SPRAY

Standard airless spray equipment such as a Graco 30:1 President or 33:1 Bulldog with a fluid tip of 11-13 thou (0.28-0.33mm) 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 50 ml/litre of DUTHIN® 340 Spray Thinner (965-63034) 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® 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. 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. Do not overcoat before the minimum overcoat interval or wrinkling may occur. **Overcoating can occur up to 1 hour after the initial application or after 24 hours.** Failing to observe these limits may result in "frying" or wrinkling. If in doubt test a small inconspicuous area first. Allow longer times under cold conditions. This product is not suitable to be directly applied over galvanised iron or zinc rich coatings.

CLEAN UP

Clean all equipment with mineral turpentine or DUTHIN® 340 Spray Thinner (965-63034) immediately after use.

OVERCOATING

Aged coating should be tested for lifting by a method appropriate for the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 - 1,500 p.s.i.) to remove loosely adhering chalk and dust. Abrasion may be required depending on surface condition. If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

SAFETY PRECAUTIONS

Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.

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 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 spray painting, users should comply with the provisions of the 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.

MATERIAL SAFETY DATA SHEET is available from Customer Service (132377) or www.duluxprotectivecoatings.com.au

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PACKAGING	Available in 4 litre containers
TRANSPORTATION WEIGHT	1.04 kg/litre (Light Base)
DANGEROUS GOODS	Class 3 UN 1263

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