



# **Dulux Duratec**<sup>®</sup>

Super Durable Powde	r Coating
Product Code:	900 Line
Specification met:	Meets and/or exceeds requirements of AS3715, BS6496, AAMA2604.
<b>Description</b>	
e	C free powder coating designed specifically for architectural applications where colour and gloss retention are with advanced polyester resin technology and high performance pigments to conform with the performance

critical. Duratec@ is formulated with advanced polyester resin technology and high performance pigments to conform with the performance requirements of AAMA2604 (Supersedes AAMA605.2-92). It has superior gloss and colour retention compared with standard polyester powder coatings.

<b>Features</b>	Benefits
20 year film integrity	Warranted performance on correctly pre-treated aluminium when applied by a Dulux Registered Applicator.
15 year colour warranty	Excellent colour retention, Warranted performance on correctly pre-treated aluminium when applied by a Dulux Registered Applicator. Duration colour & location dependant.
Registered Applicators	Quality assurance systems in place
Good flow out	Smooth film appearance
No solvents or emissions	Less waste and pollution to the environment
TGIC free	Reduced risk to health
Tough polyester	Hard wearing/serviceable finish
Uses	

Duratec® has been developed for use on extruded architectural aluminium, including window and door frames, and extruded panel work on commercial buildings.

<b>Performance</b> G	uide		
Weather	Excellent resistance to weathering, providing extended protection for aluminium.	Salt Spray	Excellent salt spray resistance over pre- treated aluminium. (3000 hours ASTM B117)
Heat	Excellent resistance to 120°C continuous service conditions.	Humidity	Excellent resistance to 38°C/100% humidity for 3000 hours on pre-treated aluminium.
Acid	Resistant to spills of dilute acid. Avoid contact.	Abrasion	Excellent resistance to abrasion. Abrasion Coefficient > 20 (ASTM D968)
Alkali	Resistant to spills of dilute alkali. Avoid	Pencil Hardness	Min H
	contact.	Knoops Hardness	Min 18
Flexibility	Limited < or = 80 inch/lb	Cross Hatch Adhesion	No removal
Chemical Resis	tance		
Mortar	Resistant	White Spirits	Slight softening/limit contact
Ethanol	Resistant	Xylene	Slight softening/limit contact
Methyl Ethyl Ketone	Softens/avoid contact	Ethyl Acetate	Softens/avoid contact

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010	ur	A limited range of made to order soli and pearl colours	d Specific gravity	1.3-1.7 @ colour
Glos	s Level	25 - 90% at 60°, as required	Shelf life	12 months when stored below 25°/dry conditions
Ap	plication Data	l		
Appl	ication Method	Electrostatic spray.		
Clea	n Up	Dust or vacuum loose powder. Avoid use of compressed air.		
Cure	Schedule	Metal Temperature (°C)	Time (minutes	)
Glos	ss & Satin finish onl	<u>y</u> 210	4	
		200	5	
		180	8	
Mat	t finish only	210	8	
	¥	200	10	
Cure	d Film Thickness	Recommended:	80 µm	
		Range:	50 – 120 μm	
Note:	Light colours may requi	re a higher minimum film build for opt		stency.
		t recommended film thickness		-
as me		pplication and surface profile and textu		al spreading rates will vary due to such factors
Ap				
	ace Preparation			
Surfa	ace Preparation ces should be prepared a	ccording to AS1627.6-2003 Section 3 t be adhered to, as appropriate. Suitable		corresponding to Class 1. Chemical supplier
Surfa Surfa recon	ace Preparation ces should be prepared a			corresponding to Class 1. Chemical supplier (refer AS1627.6-2003 Section 3)
Surfa Surfa recon	ace Preparation ces should be prepared a nmendations should also	be adhered to, as appropriate. Suitable Chrome chromate		
Surfa Surfa recon Alum Appl Appli	ace Preparation ces should be prepared a nmendations should also inium ication Procedure and 1 ied by Dulux Powder Cos	be adhered to, as appropriate. Suitable Chrome chromate Equipment	pre-treatment includes:	
Surfa Surfa recon Alum Appl Appli	ace Preparation ces should be prepared a nmendations should also innium ication Procedure and i ied by Dulux Powder Cos ol of the application and For fluidised bed, ens	be adhered to, as appropriate. Suitable Chrome chromate Equipment atings Duratec® Registered Applicators stoving as set out in the Duratec® App	pre-treatment includes: s with equipment and control sys licators Manual. idised powder should resemble '	(refer AS1627.6-2003 Section 3)
Surfa Surfa recon Alum Appli Contr 1a)	Ace Preparation Cess should be prepared a Inmendations should also Initian Cess and Procedure and Cess and Procedure and Cess and Procedure and Cess and Procedure and For fluidised bed, ens may require pre-cond	be adhered to, as appropriate. Suitable Chrome chromate Equipment atings Duratec® Registered Applicators stoving as set out in the Duratec® App ure uniform fluidisation of powder. Flu	pre-treatment includes: with equipment and control systicators Manual. idised powder should resemble ' evenly.	(refer AS1627.6-2003 Section 3 ) tems to enable correct metal pre-treatment and 'simmering liquid''. Aged or compacted powde
Surfa Surfa recon Alum Appl Contr 1a) 1b)	Ace Preparation Cess should be prepared a Inmendations should also Initian Cess and Procedure and Cess and Procedure and Cess and Procedure and Cess and Procedure and For fluidised bed, ens may require pre-cond	be adhered to, as appropriate. Suitable Chrome chromate Equipment atings Duratec® Registered Applicators stoving as set out in the Duratec® App ure uniform fluidisation of powder. Flu itioning for several minutes to fluidise er re probe is fully inserted in powder and	pre-treatment includes: with equipment and control systicators Manual. idised powder should resemble ' evenly.	(refer AS1627.6-2003 Section 3 ) tems to enable correct metal pre-treatment and 'simmering liquid''. Aged or compacted powde
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Surfa Surfa recon Alum Appl Appli contr	ace Preparation         ccs should be prepared a         nmendations should also         inium         ication Procedure and I         ied by Dulux Powder Cool of the application and         For fluidised bed, ens         may require pre-cond         For box feeders, ensu         Apply by electrostatic         Cure as per recommender	be adhered to, as appropriate. Suitable Chrome chromate Equipment atings Duratec® Registered Applicators stoving as set out in the Duratec® App ure uniform fluidisation of powder. Flu itioning for several minutes to fluidise e re probe is fully inserted in powder and spray.	pre-treatment includes: s with equipment and control systicators Manual. idised powder should resemble ' evenly. operated as per manufacturer's s	(refer AS1627.6-2003 Section 3 ) tems to enable correct metal pre-treatment and 'simmering liquid''. Aged or compacted powder recommendations.

### Care and Maintenance

Reference should be made to AAMA610.1:1979 standard for cleaning of surfaces. This is a condition of the warranty.

In broad terms, cleaning of externally located powder coating surfaces must take place every three months. Where salts/pollutants are more prevalent such as seaside and industrial areas, a cleaning program should be carried out more frequently.

#### THREE STEPS TO CLEANING POWDER COATED SURFACES

- 1. Remove loose deposits with a wet sponge (avoid scratching the surface by dry dusting).
- 2. Using a soft clean cloth and a mild detergent in warm water, clean the powder coating to remove dust, salt or other deposits.
- 3. Always rinse after cleaning with fresh water to remove any remaining detergent.

WARNING: In some cases, strong solvents recommended for thinning various types of paints and also for cleaning up mastics/sealants are harmful to the extended life of the powder coated surface. These solvents should not be used for cleaning purposes and will render the warranty void if used. If paint splashes or sealants/mastics need to be removed then the following solvents can be used safely: Methylated Spirits, Ethyl Alcohol, Isopropanol.

## Health and Safety

DULUX Powder & Industrial Coatings

Rev 6 Feb 2010

# **Duratec**<sup>®</sup>

The MSDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed and other relevant SH&E information.

For detailed information, refer to product label and the current Chemical Data Sheet (No. 13960128) available through Sales and Customer Service Offices.

Phone: Australia:-	13 24 99	New Zealand:-	09 441 87244.

### **Precautions and Limitations**

- For use by Duratec® Registered Applicators only, who can demonstrate ability to consistently meet and measure criteria according to AAMA2604, and Duratec® Applicators Manual.
- Duratec® is only available in solid and pearl colours which meet Dulux Powder Coatings pigmentation criteria. Strong, bold colours may not necessarily meet these criteria and should be referred to Dulux Powder Coatings before specifying.
- As a result of possible wide application variations and stoving conditions, some products and colours may show variation between Dulux Powder Coatings prepared samples and production applied material. Therefore, it is the applicator and/or their customer's responsibility to ensure the product conforms to their requirements.
- For optimum performance ensure recommended dry film thickness is obtained. Some light colours require increased film thickness average to achieve optimal consistency.
- Not recommended for use in highly corrosive environments such as very severe marine or some industrial locations.
- Not recommended for components which are exposed to constant temperatures exceeding 120°C.
- Not recommended for post-forming.

Transport and Store	ige	-	
Sizes:	20 kg	Flashpoint:	N/A
Weight:	20 kg	UN:	N/A
Dangerous Goods Class:	N/A	Package Group:	N/A
Shipment Name:	Not dangerous goods. No spe	cial transport requirements.	

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