

Dulux Powder Coatings Pyrotec HR180™ Gloss

AUDP0563

Product Code	913 LINE
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Description
<p>Previously known as DULUX Pyrotec HR180™</p> <p>Pyrotec HR180™ is a heat resistant polyester powder coating designed for applications requiring continuous service temperatures up to 180°C, while maintaining physical integrity, gloss and colour.</p> <p>Pyrotec HR180™ exhibits decorative and durability characteristics suitable for internal use and external product applications combined with excellent overall performance.</p>

Features And Benefits
<ul style="list-style-type: none"> ▪ Tough, one coat application ▪ Very good mechanical properties ▪ Good chemical resistance ▪ Exterior durable <ul style="list-style-type: none"> ▪ Hard wearing finish ▪ Good surface hardness ▪ Versatile ▪ Suitable for interior/exterior applications

Uses
<p>Pyrotec HR180™ polyesters have a multitude of uses over various substrates including steel and aluminium.</p> <p>Examples include: barbecues and barbecue fittings, wood stoves, commercial lighting fixtures and automotive components.</p>

Precautions And Limitations
<ul style="list-style-type: none"> - 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 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. - Not recommended for use in highly corrosive environments such as severe marine or industrial locations.

Performance Guide			
Exterior Durability	Good resistance to weathering. Suitable for outdoor applications.	Salt	Good. < 3mm adhesion loss at scribe after 250 hrs pre-treated steel, 1000 hrs on pre-treated aluminium.
Heat Resistance	Excellent resistance to 180°C continuous service conditions.	Water	Good resistance to 38°C/100% humidity for 1000 hours on pre-treated aluminium.
Abrasion	Good resistance to abrasion.	Acid	Resistant to spills of dilute acid. Avoid contact.
Alkali	Resistant to spills of dilute alkali. Avoid contact.		

Typical Properties															
Gloss Level	Gloss finish	Coverage													
Shelf Life	12 months when stored below 30°C/dry conditions	Colour	Limited to dark smooth and ripple colours												
Meets GBCA VOC Requirement?	Yes. Dulux Powder Coatings: <ul style="list-style-type: none"> • Contain no harmful volatile organic solvents • Free of heavy metal pigments such as lead, cadmium, arsenic & mercury • Proven low temperature curing technology • Produced with stringent Safety, Health & Environmental policies and standards • Developed with consideration of life cycle analysis, to guide our suppliers and the materials we use • Manufactured in facilities where significant energy and resources employed in production, are measured with aggressive reduction targets in place • Produced and used with minimal waste Consequently, Dulux® Powder Coatings are a prime consideration for projects where air quality standards have been set, such as 4, 5 & 6 Green Star Rating Projects.														
Clean Up	Dust or vacuum loose powder. Avoid use of compressed air.	Application Method	Electrostatic Spray												
Specific Gravity	1.6 @ colour	Flexibility	Excellent >or =160 inch/lb												
Pencil Hardness	2H	Knoop Hardness	Average 15												
Cross Hatch Adhesion	No removal	Chemical Resistance	Mortar Resistant White Spirits Resistant Ethanol Resistant Xylene Slight softening/limit contact Methyl Ethyl Ketone Softens/avoid contact Ethyl Acetate Softens/avoid contact												
Cure Schedule	<table border="1"> <thead> <tr> <th>Metal Temperature (°C)</th> <th>Time (minutes)</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>210</td> <td>8 minutes</td> <td></td> </tr> <tr> <td>200</td> <td>10 minutes</td> <td></td> </tr> <tr> <td>180</td> <td>15 minutes</td> <td></td> </tr> </tbody> </table>		Metal Temperature (°C)	Time (minutes)	Comments	210	8 minutes		200	10 minutes		180	15 minutes		
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Application Guide	
Surface Preparation	<ul style="list-style-type: none"> • Surfaces should be prepared according to appropriate standards such as AS3715-2002, BS6496, BS6497 (available from Standards Australia or Standards New Zealand offices). All surfaces should be degreased and pre-treated for optimal performance. Suitable pre-treatment includes: Aluminium Yellow chromate or green chromate/phosphate (refer AS3715 and/or BS6496) Ferrous metals Abrasive blast(SA 2.5)/Zinc phosphate or Iron phosphate (refer BS6497) Zinc Coated Steels (eg. galvanising) Zinc Phosphate or chromate (refer BS6497) Stainless Steel Suitable metal blast. Recommended maximum blast profile of 25mm
Application Procedure And Equipment	<ul style="list-style-type: none"> • Electrostatic spray. • For fluidised bed, ensure uniform fluidisation of powder. Fluidised powder should resemble "simmering liquid". Aged or compacted powder may require pre-conditioning for several minutes to fluidise evenly. 1b) For box feeders, ensure probe is fully inserted in powder and operated as per manufacturer's recommendations. 2. Apply by electrostatic spray. 3. Cure as per recommendations outlined above. 4. Test for cure of the coating by contact with a drop of Corsol PGMA (available from Dulux Powder Coatings) for 30 seconds. Surface should be wiped dry and immediately checked for softening. Only slight surface softening should occur.

Spray Application Guide	
 Thinner	Not applicable

Care And Maintenance

As a general rule, cleaning of externally located powder coating surfaces must take place every six 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. If paint splashes or sealants/mastics need to be removed then the following solvents can be used safely: Methylated Spirits, White Spirits, Ethyl Alcohol, Isopropanol.

Health And Safety

MSDS Number	21399, 0	Safety Precautions	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. 21399) available through Sales and Customer Service Offices. Phone: Australia:- 13 24 99
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In the case of emergency, please call 1800 033 111

Transport And Storage

Package Weight	20 Kg	Shipment Name	Not dangerous goods. No special transport requirements.
Flash Point	NA	UN Number	NA
Dangerous Goods Class	NA	Package Group	NA

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