



ENVOTEC 288®

TGIC Free Polyester Powder Coating

Product Code: 288 Line

Specification Met: Meets and/or exceeds requirements of AS3715, BS6496, GB5237.4-2008 and AAMA2603.2005

Description

Envotec 288 is a new generation powder coating with good exterior durability and mechanical toughness. It is available in a variety of colours and gloss levels as well as selected textures, ripples and hammer finishes.

Features

Benefits

High transfer efficiency	Increased first pass transfer
Low cure	Cost savings on energy or increased line speeds
Film integrity	Long intact life of coating
Tough polyester	Hard wearing/serviceable finish
No solvents or emissions	Less waste and pollution to the environment
TGIC free	Reduced risk to health

Uses

Envotec 288® was developed primarily for use on extruded aluminium, including window and door joinery, and extruded aluminium panel work on residential and light commercial buildings.

Performance Guide

Weather	Good resistance to weathering. Suitable for outdoor applications.	Salt Spray	1000 hours on pre-treated aluminium.
Heat	Good resistance to 120°C continuous service conditions.	Humidity	Good resistance to 38°C/100% humidity for 1000 hours on pre-treated aluminium.
Acid	Resistant to spills of dilute acid. Avoid contact.	Abrasion	Very good resistance to abrasion
Alkali	Resistant to spills of dilute alkali. Avoid contact.	Pencil Hardness	Min H
Flexibility	Pass 50kg.cm	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

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Product Guide

Colour	A wide range of stock and made to order solid colours	Specific gravity	1.3 - 1.7 @ colour
Gloss Level	25 - 98% at 60°, as required	Shelf life	12 months when stored below 25°C/dry conditions

Application Data

Application Method	Electrostatic spray.		
Clean Up	Dust or vacuum loose powder. Avoid use of compressed air.		
Cure Schedule	Metal Temperature (°C)	Time (minutes)	
	210	6	
	200	8	
	180	10	
Cured Film Thickness	Recommended:	80 µm	
	Range:	50 – 110 µm	

Theoretical spreading rate at recommended film thickness

A spreading rate of 8 - 10m²/kg corresponds to 80µm cured film thickness assuming no loss. Practical spreading rates will vary due to such factors as method and conditions of application and surface profile and texture.

Application Guide

Surface Preparation

Surfaces should be prepared according to appropriate standards such as AS/NZS4506, AS3715, 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	(refer AS3715 and/or BS6496/GB5237-2008/AAMA2603.2005)
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Application Procedure and Equipment

- 1a) 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. Care should be exercised when stoving temperatures are in excess of 220°C as these high temperatures may affect the appearance and film integrity of the finish.
4. Test for cure of the coating by contact with a drop of solvent (available from DGL Camel Powder Coatings) for 30 seconds. Surface should be wiped dry and immediately checked for softening. Only slight surface softening should occur.



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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, Turpentine, White Spirits, Ethyl Alcohol, Isopropanol

Health and Safety

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 available through Sales and Customer Service Offices.

Phone: 86-769-8755 8778

Precautions and Limitations

- Some strong, bold colours may not meet performance criteria for weathering (colour change), refer to DGL Camel Powder Coatings before specifying.
- As a result of possible wide application variations and stoving conditions, some products and colours may show variation between DGL Camel 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
- Not recommended for use in highly corrosive environments such as severe marine or industrial locations.
- Not recommended for components which are exposed to constant temperatures exceeding 120°C.

Transport and Storage

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 special transport requirements.		



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