

Customcoat®

Powder Coating for Heat Sensitive Substrates

Product Code: 201 Line

Description

Customcoat® is a tough thermosetting powder coating designed for application on Medium Density Fibreboard (MDF) and other heat sensitive substrates. It is suitable for interior applications only.

Customcoat® shows good application properties on MDF and gives a film very resistant to wear and damage.

Features

Benefits

Good application on MDF	Excellent for various uses on MDF
Very low temperature curing on metal	Excellent for heat sensitive parts e.g. plastic inserts on cupboard doors
Film integrity	Long intact life of coating
Very good surface hardness	Hard wearing/serviceable finish
No solvents or emissions	Less waste and pollution to the environment
Good chemical resistance	Resists oil and general chemical spills

Uses

Customcoat® has a multitude of uses over medium density fibreboard (MDF).

Examples include: office fittings, work stations, kitchen fittings.

Performance Guide

Weather	Customcoat® is not recommended for exterior use. Under glass the product has excellent resistance to yellowing and gloss change.	Cross Hatch Adhesion	No removal
Heat	Excellent resistance to 120°C	Cigarette Resistance	Slight marking
Acid	Resistant to spills of dilute acid.	Abrasion	Excellent resistance to abrasion.
Alkali	Resistant to spills of dilute alkali.	Pencil Hardness	Min H

Chemical Resistance

Very good resistance to oils and general chemicals.

Ethyl Acetate	Softens after prolonged contact	White Spirits	Resistant
Ethanol	Resistant	Xylene	Slight softening/limit contact
Methyl Ethyl Ketone	Softens after prolonged contact		

Customcoat®

Product Guide

Colour	Made-to-order colours available only.	Specific gravity	1.2 - 1.7 @ colour
Gloss Level	Usually available in a texture grade	Shelf life	6 months when stored below 25°C/dry conditions

Application Data

Preheat Temperature The MDF substrate should be preheated to a surface temperature of between 30°C and 70°C before coating.

Application Method Electrostatic spray.

Clean Up Dust or vacuum loose powder. Avoid use of compressed air.

Curing Discuss with DGL Camel Powder Coatings the best method for curing on MDF. Faster cure can be achieved by using Infra Red (IR) curing.

Cure Schedule	MDF Temperature (°C)	Total Time (minutes)
On 18mm MDF	150	20

Metal Cure Schedule Curing down to 100°C is possible

Cured Film Thickness	Recommended:	120 µm
	Range:	100 – 150 µm

Note: The grade of MDF used is very important in achieving successful powder coating.

Trimatrix MDF grade (using DGL MDF board technology) is recommended in combination with 201 Line Customcoat® powder coating to give the best combination for successful coating of MDF.

The Trimatrix MDF board has excellent heat resistance (for dimensional stability of the MDF) and excellent and consistent transfer efficiency of 201 Customcoat® powder coating for successful powder coating.

Theoretical spreading rate at recommended film thickness

A coverage rate of 6 - 10m²/kg is typical. Practical spreading rates will vary due to such factors as method and conditions of application and surface profile and texture.

Application Guide

Surface Preparation

All MDF surfaces should be clean and free from dirt, oil or loose MDF fibres. Avoid touching the MDF board with bare hands (wear gloves)

Application Procedure and Equipment

1. Preheat the MDF to the temperature recommended above.
- 2a) For fluidised hoppers, 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.
- 2b) For box feeders, ensure probe is fully inserted in powder and operated as per manufacturer’s recommendations.
3. Apply by electrostatic spray.
4. Cure as per recommendations outlined above.
5. Test for cure of the coating by contact with a drop of Corsol PMA (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.

Customcoat®

Care and Maintenance

The use of abrasive cleaners is not recommended, nor is the use of active organic solvents.

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

- As a result of possible wide application variations and stoving conditions, Customcoat® may show variations 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 film performance ensure the recommended dry film thickness is obtained.
- Not recommended for use in highly corrosive environments such as severe marine or industrial locations.
- Not recommended for exterior applications.

Transport and Storage

Sizes:	20kg boxes	Flashpoint:	N/A
Weight:	20kg	UN:	N/A
Dangerous Goods Class:	N/A	Package Group:	N/A
Shipment Name:	Not dangerous goods. No special transport requirements.		

DGL Camel Powder Coating (Dongguan) Ltd Yan Tian District, Feng Gang Dong Guan, Guang Dong 523701 PRC	Dulux Powder Coatings 51 Winton Road Clayton, Victoria, 3168 Australia ACN 004 117 828	DGL Powder Coatings 31B Hillside Road Glenfield, Auckland New Zealand
Telephone: 86 769 8755 8778	61 3 9542 4500	64 9 441 8244
Fax: 86 769 8756 9339	61 3 9542 4542	64 9 441 8242

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