

Anti Graffiti™

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Anti Graffiti Powder Coating

Product Code: 910 Line

Specification met:

Description

Anti Graffiti™ is a powder coating offering exceptional properties in resistance to abrasion damage and allowing rapid removal of graffiti. Pentel and aerosol paint graffiti can, in general, be removed by a recommended solvent wipe of 1-2 rubs. The range is suitable both for exterior and interior exposure environments

Features

Benefits

Excellent solvent resistance	Easily remove most forms of graffiti
Film integrity	Long intact life of coating
Tough film	Hard wearing / serviceable finish
No solvent or emissions	Less waste and pollution to the environment

Uses

Anti Graffiti™ powder coatings have a multitude of uses over various substrates including steel and aluminium. Examples include: platform signage and train components, bus shelters, security lockers, telephone boxes, road and general signage, roller shutter doors, transformers and furniture for industry and schools. Potential applications include areas in public buildings and recreation grounds such as toilet and shower cubicles, wall partitioning, food court benches, outdoor furniture, fixtures and fittings. Note: All metal substrates must be prefabricated – post-forming is NOT recommended with Anti Graffiti coatings.

Performance Guide

Weather	Good resistance to weathering. Suitable for outdoor applications.	Salt Spray	< 3mm adhesion loss at scribe after 250 hours on pre-treated steel panels (ASTM B117)
Heat	Excellent resistance to 120°C continuous service conditions.	Humidity	Good resistance to 38°C/100% humidity for 1000 hours on pre-treated aluminium.
Water Soak	No failure under 1000hrs (32°C)	Abrasion	Excellent resistance to abrasion.
Flexibility	Pass 50kg.cm	Pencil Hardness	Min 4H
		Cross Hatch Adhesion	No removal

Chemical Resistance

Ethyl Acetate	Resistant	White Spirits	Resistant
Ethanol	Resistant	Xylene	Resistant
Methyl Ethyl Ketone	Resistant	Dulon AAA Thinners	Resistant
10% Acetic Acid	No effect (100hrs)	10% Ammonium Hydroxide	No effect (100hrs)
10% Hydrochloric Acid	No effect (100hrs)		

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Product Guide

Colour	A wide range of made to order colours	Specific gravity	1.3 - 1.7 @ colour
Gloss Level	70-90% at 60°	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	15	
	200	20	
	180	25	
Cured Film Thickness	Recommended:	60 µm	
	Range:	40 – 120 µm	

Theoretical spreading rate at recommended film thickness

A covering rate of 10 - 12m²/kg is commonly experienced. 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 surfaces should be degreased and pre-treated for optimal performance. Suitable pre-treatment includes:

Aluminium	Yellow chromate or green chromate/phosphate	(refer AS3715-2002 and/or BS6496)
Ferrous metals	Zinc or Iron phosphate	(refer BS6497 and/or AS/NZ4506)
Zinc Coated Steels	Zinc or Iron phosphate	(refer AS/NZ4506)

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 taken when stoving at 220°C or above as some colours are prone to discolouration.
4. Test for cure of the coating by contact with a drop of Methyl ethyl ketone for 100 double rubs. Surface should be immediately wiped dry, only slight surface softening should occur.

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Care and Maintenance

Solvent recommended for the removal of graffiti is Graffiti Eraser. Please contact DGL for details.

Apply the solvent with a soft rag, allow the solvent to moisten the graffiti marks (approximately 30 seconds), before wiping the surface clean.

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

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 corrosion 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.
- Anti Graffiti is not recommended for post-forming.
- This product can release an irritating white fume on baking, which is particularly noticeable if there is inadequate ventilation. Ensure adequate ventilation/extraction is available when baking this product to minimise fuming.



DGL Camel Powder Coatings (Dongguan) Ltd
德家朗骆驼粉末涂料(东莞)有限公司

Anti Graffiti™

Transport and Storage

Sizes:	25 kg	Flashpoint:	N/A
Weight:	25 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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