



Pacificgold Armorspray® EP

Dulux Powder Coatings Specialised Environmental Protection Powder Coating			
Product Code: 910 Line			
Specifications Met: DIN 68861 (Furniture Surfaces)			
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Description

Armorspray EP is a powder coating offering exceptional properties in resistance to a broad range of chemical, 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 and is often used where aggressive environments are encountered outdoors.

Features	Benefits
Excellent solvent resistance	Graffiti resistant
Excellent chemical resistance	Hard wearing in unfriendly environments
Film integrity	Long intact life of coating
Tough film	Hard wearing/serviceable finish
No solvents or emissions	Less waste and pollution to the environment

Uses

Armorspray EP powder coatings have a multitude of uses over varied substrates from steel to aluminium. Examples of their application platform signage and train componentry, 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 'pre fabricated' - No post forming is recommended with Armorspray EP coatings

Performance Guide				
Weather	Good resistance to weather	Salt Spray	2-3mm adhesion loss at scribe after 250hrs ASTM B117 salt spray (Duridine 49 pretreated steel panels)	
Heat	Excellent resistance to 220°C continuous service conditions	Humidity	Excellent resistance to 35°C/100% humidity for 1000 hours on pretreated aluminium.	
Flexibility	Pass 80 inch/lb	Abrasion	Very good resistance to abrasion. 50 rubs with 'Jif' - no gloss reduction	
Pencil Hardness	Min 4 - 6H	Cross Hatch Adhesion	No removal	
Water Soak	No failure after 1000hrs (32 ^o C)			
Chemical Resistance				
Ethyl Acetate	Resistant	White Spirits	Resistant	

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Ethanol	Resistant	Xylol	Re	esistant	
Methyl Ethyl Ketone	Resistant	Dulon AAA Thinner	s Re	Resistant	
10% HCL Acid	Unaffected (100hrs)	Specific gravity	1.3	1.3 - 1.7 @ colour	
Gloss Level	25 - 98% at 60° as required	Shelf life		12 months when stored below 30°/dry conditions	
Product Guide					
Colour	No restriction	Specific gravity		1.3-1.7 @ colour	
Gloss Level	70 - 90% at 60°, as required	Shelf life		12 months when stored below 25 ⁰ /dry conditions	
Toxicity	Refer MSDS (No. 35424 & 3	7140).	1		
Application Data					
Application Method	Electrostatic corona				
Clean Up	Dust or vacuum loose powde	r. Avoid use of compre	ssed air	sed air!	
I	Film build Cure Schedule			chedule	
Cured Film Thickness (microns)	Min Max Recom 1. 50 150 80	Metal Temperatu 220 200 180	re	Time 15 minutes 20 minutes 25 minutes	
Note: Light colours may require a higher minimum film build for optimum coverage and colour consistency.					
Theoretical spreading rate at	recommended film thickness				
A coverage rate of 7- 9sq.meters per Kg corresponds to 80 µm 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 AAMA2603-98 (available from Standards Australia or Standards New Zealand offices). Chemical supplier recommendations should also be adhered to, as appropriate. Suitable pre-treatment includes:					
Aluminium	Yellow chromate or green chromate/phosp	hate (refer AS3715-2002 and/or BS6496)			

Application Procedure and Equipment

¹ LPP	meanon 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 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 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.

Care and Maintenance

Reference should be made to AAMA610.1:1979 standard for cleaning of surfaces. 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.

Grafitti removal:- Sovents recommended for grafitti removal are:-Dulon AAA thinners & MIBK Apply the solvent with a soft rag, allow the solvent to moisten the grafitti marks, allow approximately thirty seconds before wiping the surface clean.

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.

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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 some powder coated surfaces. These solvents should not be used for cleaning purposes without first checking with your Dulux Representative.

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 (No. 35424 & 37140) available through Sales and Customer Service Offices.

Phone: Australia:-13 24 99 New Zealand:-09 441 8244.

Precautions and Limitations

- Strong, bold colours may not necessarily meet these criteria and so 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 a variance 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.

Dulux Powder Coatings is under no obligation to replace product or repair damages that may result from the use of this product in any way other than stated on the Product data sheet or Material safety data sheet.

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.

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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