



# AG900 SERIES

DECEMBER 2002

## Guaranteed Architectural Polyester



### Product Data

The latest in the AG range of polyester powders from PPG Industries. Coupled with the most stable pigments offered, PPG continue to keep New Zealand at the forefront of world technology in architectural grade powder coatings.

AG900 is a saturated carboxylated polyester resin, cured with heterocyclic curing agent.

- Most technically advance polyester resin currently available
- Pigment selection made only from the most durable and light-fast materials available.
- "Approved Applicator" system ensures highest quality of workmanship.
- Rigid quality control procedures at each stage of production and coating application.
- Guaranteed 10 years on pre-formed aluminium.
- Wide range of colours and various gloss levels available.
- Low relative applied cost.
- Compatible with sealants commonly used in glazing and caulking.
- Can be applied to a range of metal substrates, rather than only aluminium.
- Highly mar resistant – ideal for use in high traffic areas.
- Easily cleaned and maintained.
- Can be retouched on site
- Environmentally friendly.

### Uses

Window frames and exterior panels.

### Colour Availability

Extensive range, made to individual colours and gloss levels. Individual customer colours can be matched from colour standards as provided in quantities that are economical for small runs.

### Substrates

Cold rolled mild steel (CRS)  
Zinc coated steels  
Aluminium alloys

### Pre-treatment

CRS:	Zinc or iron phosphate
Zinc Coated Steels:	Zinc phosphate or chromate conversion
Aluminium Alloys:	Chromate conversion

### Application

Electrostatic or Tribomatic spray equipment.

### Curing

10 mins @ 200 deg C Peal Metal Temperature (PMT). PMT is the temperature of the substrate at which timing begins for the curing cycle.

### Specific Gravity

>1.2 depending on colour

### Cleaning / Maintenance

It is important that maintenance be done on a regular basis.

Dirt deposits from the atmosphere are often capable of causing damage to the coating surface and must be regularly removed. It is recommended that the coating be washed on a routine of three monthly intervals in marine environments and in areas prone to atmosphere fallout

- Dirt and deposits should be removed with a wet sponge to prevent scratching.
- Cleaning should be done using a dilute solution of a mild liquid detergent in warm water.
- After cleaning always rinse thoroughly with clean fresh water.

## Film Properties

The recommended thickness for the cured powder film is 40-100 microns. The optimum film thickness is generally in the range of 50-80 microns. AG900 must not be applied at film thickness below 40 microns or exceed 120 microns.

Mechanical tests carried out on lightweight, zinc phosphate treated panels with 50 microns gloss finish film.

Panels baked for 10 mins @ 200 deg. C.

### Mechanical

Flexibility (conical mandrill) ASTM D522: Pass 6mm

Adhesion (2mm crosshatch) BS3900-E6: Pass GTO

Hardness (4000g) GS3900-E2: Pass (no penetration).

### Chemical

Salt Spray (ASTM-B117): Pass @ 3000 hours. No corrosion creep <3mm from scribe.

Cyclic Humidity BS3900-F7: Pass no blistering or loss of gloss after 2000 hours.

Temperature Stability: Excellent for outdoor continuous exposure.

### Chemical & Solvent Resistance:

Generally good resistance to acids, alkalis, oil and most solvents at normal temperatures.

NOTE: Only guaranteed on pre-formed aluminium extrusion panelling.

## AG900 System Control

AG900 is manufactured and applied under strict control. AG900 is only available through "APPROVED" applicators. These applicators must meet rigid requirement for standard of plant and equipment, procedures of handling, record keeping and quality control testing. PPG Industries monitor the application of each batch of AG900 powder and check such things as powder pre-treatment, film cure, film thickness, adhesion, gloss etc by a comprehensive series of laboratory evaluations. Further evaluations are undertaken by QUV accelerated weather testing and exterior exposure to test panels. Once laboratory approval is given, the guarantee certificate will be issued. Retain sample of powder and coated panels are kept, along with a complete history of manufacture and application.

### AG900 Guarantee

This product carries two guarantees. Firstly the approved applicator gives a 2 year workmanship guarantee and secondly the product carries a 10 year performance guarantee. These guarantees can only be issued through an approved AG900 applicator. For further details contact PPG Industries.

## Storage and Packaging

Packaging: Cardboard boxes – 20kg. Bulk packs available to suit your requirements.

Shelf Life: 12 months minimum @ <30 deg C/dry. All bags must be sealed before storage.

Store in a cool, dry area.

## Fire Hazard

AS1530 Part 3, passes:

Ignitability index: 0 (range 0-20)

Spread of Flame Index: 0 (range 0-10)

Heat Evolved Index: 0 (range 0-10)

Smoke Developed Index: 3 (range 0-10)

## Health & Safety

PPG Envirocron powder coatings can generally be regarded as inherently non-toxic.

Powder on the skin should be washed off using soap and water. Powder in the eyes should be washed out with water for 15 minutes.

Avoid breathing airborne dusts: wear an approved dust mask.

Ovens should be exhausted to atmosphere.

Users should refer to "Code of Safe Practice" as supplied by Paint Makers' Association (UK) and NZ Department of Labour.

For further information, refer to the Material Safety Data Sheet for this product.

## CAUTION:

**Improper use and handling of this product can be hazardous to health.**

**This product is to be used by those knowledgeable about proper application methods. PPG Industries makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG Industries is unaware and over which it has no control.**

**If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.**

***This product is for professional use only. Not for residential use.***

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PPG Industries NZ Ltd • 5 Monahan Road • Mt Wellington • Auckland • Phone 0800-263 766 • Fax 0800-659 377  
PPG Industries Australia Ltd • McNaughton Rd • Clayton • VIC 3169 • Phone 1300 305 699 • Fax 1300 304 214