



AP74 SERIES

Architectural TGIC-free System



Product Data

The latest New Zealand Industry Standard for Powder Coating Aluminium Extrusion and allied products.

Drawing on PPG Industries' vast international experience in delivering industry focused products, AP74 is the culmination of many years of both local and overseas development work and testing.

The predominant colour selection for AP74 series is based around the current top 30 WANZ (Window Association of New Zealand) colours (refer PPG Envirocron Architectural Colours Correlation Guide). PPG has not limited the AP74 series to just these colours, other colours are available to special order. For the more modern and sharp designs we also offer AP74 metallic effect coatings.

AP74 series is based on a superior, exterior durable polyester resin and a fast curing curative. AP74 does not contain the curative TGIC.

AP74 offers the following unique properties:

- Superb smooth finish
- Improved transfer efficiencies to traditional polyester coatings.
- Outstanding powder transfer and spray characteristics
- Most technically advanced polyester binder system
- Pigments selected from the most durable and light fast available
- Can be applied to a range of metal substrates as well as aluminium. (Only warranted on pre-formed aluminium).
- Performance warranty (for specified colours and substrates) when applied by PPG Envirocron approved applicators.
 - 7 year colour integrity
 - 10 year film integrity
 - 25 year service life
- Conforms to the following standards:
 - AAMA 2603-98
 - AS3715
 - BS6496
 - AS/NZS 4506:1998

Pre-treatment

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

Application

Corona or Tribo electrostatic spray equipment. Exceptional performance on both automated and manual application equipment.

Performs well in both fluidised hoppers and box feeders.

Application Notes

The recommended film thickness for the cured powder film is between 60 and 90 microns. Fully reclaimable (some metallic versions excepted).

Curing

Standard conditions are:

10 mins @ 180°C (object temp), or

6 mins @ 200°C (object temp)

Film Properties

Mechanical tests carried out on lightweight, chromate pre-treated panels with 60 microns satin finish film. Panels baked for 10 mins @ 180°C (object temperature).

Mechanical:

Flexibility (conical mandrel) ASTM D522 Pass 3mm

Adhesion (2mm crosshatch) BS3900 Pass GTO

Impact resistance BS3900-E3 Pass 120 inch lb

Pencil hardness Minimum F

Chemical:

Salt spray (ASTM-B117) Pass @ 1000 hours <3mm from scribe

Cyclic humidity BS3900-F7 At 40°C, pass no blistering

Uses

AP74 series is suitable for a variety of decorative and functional applications including:

- Aluminium extrusion and panelling
- Other allied building products that require the unique performance benefits found in AP74 series.

Colour Availability

WANZ colours

Others to special order

Substrates

Aluminium alloys

CRS

Zinc coated steels

Specific Gravity

Varies by colour. Refer to individual product MSDS

Storage and Packaging

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

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

Store in a cool, dry area.

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.

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if written claim is made within 14 days from date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements. Freedom from patent restrictions is not implied.

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