



# PT54 SERIES

NOVEMBER 2002

## *Polyester Texture Powder Coating*

### Product Data

PT54 Polyester Textures offer similar properties to that of PPG Envirocron's internationally renowned PE54 range of general industrial polyester powder coatings.

PT54 Polyester Textures are polyester-based formulations offering coatings with the following unique properties.

- Good mechanical properties.
- Aesthetic texture finishes available in a range of sheens.
- Uniform texture aspect.
- Good powder transfer and spray characteristics.
- Exterior durable (product specific, some textures excluded).
- Contains performance-enhancing PTFE.

### Uses

PT54 Polyester Texture powder coating is suitable for a wide variety of decorative applications including:

- Furniture, designer craft products, garden and lawn equipment parts, outdoor lighting, certain architectural products, industrial and commercial fittings.
- Other items that require distinctive texture appearance.

Suitable for exterior and interior applications.

### Availability

To special order.

### Substrates

Cold rolled mild steel (CRS)

Zinc coated steels

Aluminium alloys

### Specific Gravity

Varies ~1.6



### Pre-treatment

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

### Application

The Polyester Fast Cure Texture series is suitable for both Corona and Tribostatic electrostatic spray equipment.

Fluidised bed methods can be used.

Please note that the applicator is recommended to test for double coat adhesion prior to spraying a production run as this product contains high performance PTFE.

### Curing

10 mins @ 180 deg C or 20 mins @ 165 deg C Peak Metal Temperature (PMT). PMT is the temperature at which timing begins for curing cycle.

It is not recommended that temperatures of less than that stated be used, as performance may be impaired.

### Handling

Care is advised in the handling of items coated with PT54 Polyester Texture powder coating.

### Film Properties

The recommended thickness for the cured powder film is 80-100 microns.

Mechanical tests carried out on lightweight, zinc phosphate pre-treated panels with 80 micron (DFT) finish film. Panels baked for 10 mins @ 180°C (object temp).

### Mechanical

Flexibility (conical mandrel) ASTM D522 Pass 6mm

Adhesion (2mm crosshatch) BS3900-E6 Pass GTO

Impact resistance BS3900-E3 120 inch lb

### Chemical

Salt spray (ASTM-B117): Pass @ 1000 hrs, <3mm from scribe.

Cyclic humidity BS3900-F7: Pass. No blistering or loss of gloss after 1000 hours

### Chemical & Solvent Resistance

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

### 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.

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