



PL54 SERIES

NOVEMBER 2002

Polyester Ripple Powder Coating



Product Data

The Polyester Ripple series are powder coatings that incorporate the latest European technology to provide a range of superior polyesters with the following properties.

- Uniform ripple pattern
- Superior spraying characteristics giving high powder transfer and utilisation
- Excellent gloss retention and chalk resistance
- Large range of colours and gloss levels
- The ripple finish of the surface enables the masking of minor surface defects

Uses

The Polyester Ripple series is suitable for a wide variety of interior and exterior applications such as:

- Interior / Exterior furniture
- Outdoor lighting
- Architectural fittings
- Metal cabinets e.g. filing, lockers, tool boxes
- Window and door knobs, latches and hinges
- Heater panels
- Air conditioning units and grills, ducting etc

Colour Availability

Extensive range made to individual colour and gloss levels. Minimum run of nominal 80kg for non-stock colours.

Specific Gravity

1.2 to 1.8, dependent on colour

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

The Polyester Ripple series is suitable for Corona Electrostatic spray equipment.
Fluidised methods can also be used

Curing

10 mins @ 180 deg C or 7 mins @ 200 deg C Peal Metal Temperature (PMT). PMT is the temperature at which timing begins for curing cycle. Temperatures of above 200 deg C are not recommended.

Exterior Durability

Application to be over approved pre-treatment system. Minimum film thickness to be 80 microns. For continuous exposure to exterior weather conditions please contact your local PPG Envirocron Technical Sales Representative.

Film Properties

The recommended thickness for the cured powder film is 80-100 microns. It is not advised to go below film thickness of 50 microns or exceed 120 microns.

Mechanical tests carried out on lightweight, zinc phosphate treated panels with 60 microns (DFT) finish film.

Panels baked for 10 mins @ 180 deg C.

Mechanical

Flexibility (conical mandrill) ASTM D522: Pass 3mm

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

Pencil Hardness AS1580.405.1 HB

Impact Resistance BS3900-E3: 120 inch.lb 2.5mm Pass

Chemical

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

Cyclic Humidity BS3900-F7: Pass no blistering or loss of gloss after 1000.

Temperature Stability

Excellent for continuous exposure up to 100 deg C.

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.

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