



HL53 SERIES

MARCH 2005

Hybrid Ripple Powder Coating



Product Data

The Hybrid Ripple series uses an epoxy / polyester formulation that offers coatings with superior properties for mainly interior applications. These properties include:

- Improved UV resistance to that of pure epoxy
- Very good over bake resistance
- Excellent mechanical properties
- Very good resistance to water, detergents and a range of chemicals
- The ripple finish of the surface enables the masking of minor surface defects
- Excellent powder transfer and spray characteristics

Uses

The Hybrid Ripple series is suitable for mainly interior applications or light duty exterior areas such as:

- Computer componentry
- Household appliances
- Heater panels
- Sporting equipment
- Indoor furniture e.g. chairs, tables, lighting ware
- Metal architraves and doors
- Bathroom fittings e.g. shower doors, taps, soap holders
- Metal cabinets e.g. filing, lockers, tool boxes

Availability

Made to individual order.

Substrates

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

Specific Gravity

1.2 to 1.8, dependent on colour

Pre-treatment

CRS: Zinc or iron phosphate

Zinc Coated Steels: Zinc phosphate or chromate conversion

Aluminium Alloys: Chromate conversion

Application

The Hybrid Ripple series is suitable for Corona electrostatic spray equipment.

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

Curing

Standard curing conditions are:

10 minutes @ 190°C (object temperature).

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

Low bake or fast curing systems are also available.

Film Properties

The recommended thickness for the cured powder film is 80-100 microns. We advise not to go below film thickness of 80 microns or exceed 120 microns. Mechanical tests carried out on lightweight zinc phosphate pre-treated panels with 50 micron (DFT) finish film. Panels baked for 10 mins @ 190°C (object temp).

Mechanical

Flexibility (conical mandrill) ASTM D522 Pass 3mm

Adhesion (crosshatch) BS3900-E6 Pass GTO

Rev impact resistance BS3900-E3 Pass 160 inch lb

Pencil hardness AS1580.405.1 HB

Chemical & Solvent Resistance

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

Exterior Durability

Direct UV exposure will result in some chalking and loss of gloss, however UV light filtered by glass does not affect chalking.

For continuous exposure to weather it is recommended that PPG Envirocron polyesters be used.

Storage and Packaging

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

Shelf Life: 12 months minimum @ 35° 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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