



HT53 SERIES

NOVEMBER 2002

Hybrid Texture Powder Coating



Product Data

Extensive development has produced a range of Epoxy/Polyester formulations called Textured Hybrids that offer coatings with superior properties for mainly interior applications. These properties include:

- Improved UV resistance to that of pure epoxy
- Very good overbake resistance
- Excellent mechanical properties
- Very good resistance to water, detergents and a range of chemicals
- All products are made to specific customer requirements
- The textured finish of the surface enables the masking of minor surface defects

Uses

The Textured Hybrid (HT) series are mainly used for interior applications or light duty exterior areas such as:

- Whiteware goods e.g. washing machines, ovens, refrigerators
- Cookware e.g. pots, camp stoves, toasters
- Heater panels
- Bicycle frames, mudguards
- 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 etc

Colour Availability

As required by customer. Minimum run of nominal 80kg for non-stock colours.

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 Textured Hybrid series is suitable for both Corona and Tribostatic electrostatic spray equipment.

Fluidised 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 @ 190 deg C or 15 mins @ 180 deg C (object temp).

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

Low bake or fast curing systems are also available.

Film Properties

The recommended thickness for the cured powder film is 60-100 microns. It is not advised to go below film thickness of 40 microns or exceed 120 microns.

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

Panels baked for 10 mins @ 190 deg C.

Mechanical

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

Chemical

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

Cyclic Humidity BS3900-F7: Pass no blistering or loss of gloss after 1000 hours @ 40 deg C.

Substrates

Cold rolled mild steel (CRS)

Zinc coated steels

Aluminium alloys

Exterior Durability

Direct UV exposure will result in some chalking and loss of gloss after 3-6 months. 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 @ <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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