



OCTOBER 2000

PE745/5155 PHANTOM BLACK

TGIC-free Satin Polyester



Product Data

Phantom Black is a polyester formulation cured with an advanced TGIC-free curative, that offers a coating with the following unique properties:

- High flow polyester suited for industrial OEM equipment
- Excellent mechanical properties
- Aesthetic smooth satin finish
- Excellent powder transfer and spray characteristics
- Exterior durability
- Uses ECT (Economical Coating Technology)

Uses

PE745/5155 Phantom Black powder coating is suitable for a wide variety of decorative and functional applications, including:

- Architectural fittings (non-extrusion)
- Automotive underhood and alloy wheels
- Metal furniture
- Garden and lawn equipment parts
- Outdoor lighting
- Gas barbeque frames
- Craftware products
- Toys
- Industrial and commercial fittings

Suitable for general industrial exterior and interior applications. Offers best price / performance point.

Availability

Ex stock.

Specific Gravity

1.68

Substrates

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

Pre-treatment

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

Application

Corona or Tribo spray equipment. May be applied using fluidised bed methods.

The recommended film thickness for the cured powder film is between 60 and 90 microns.

Curing

Minimum standard conditions are:

7 mins @ 200 deg C (object temp) or 10 mins @ 180 deg C (object temp).

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

Film Properties

Mechanical tests carried out on lightweight, zinc phosphate pre-treated panels with 60 micron (DFT) finish film. Panels baked for 10 mins @ 180°C (object temp).

Mechanical:

Flexibility (conical mandrel) ASTM D522	Pass < 3mm
Adhesion (crosshatch) BS3900:E6	Pass GTO
Rev impact resistance BS3900-E3	1A 100 kg.cm
Pencil hardness AS1580.405.1	H

Chemical:

Salt spray (ASTM-B117-95)	Pass <3mm, 1000 hrs
Cyclic humidity ASTM D2247-94	Pass. No blistering after 1000 hrs

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.

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