



AG543/5044 MATT BLACK

NOVEMBER 2002

Architectural Low Gloss Polyester



Product Data

Further developments have produced an exterior durable Matt Black Powder Coating. AG543/5044 Matt Black is produced using an advanced Chip Blend manufacturing technique that creates the highly popular low gloss matt appearance. AG543/5044 Matt Black contains a super-durable polyester resin and offers coatings with the following unique properties.

These properties include:

- Excellent gloss retention and chalk resistance
- Excellent weathering properties
- Superior spraying characteristics providing high powder transfer and utilisation
- Low relative applied cost
- High mar resistance – ideal for use in high traffic areas
- Rigid quality control procedures at each stage of production and coating applications
- Can be applied to a range of metal substrates, rather than only aluminium
- Easily cleaned and maintained
- Environmentally friendly

Uses

AG543/5044 Matt Black powder coating is suitable for a wide variety of decorative and functional applications, including:

- Garden and lawn equipment parts
- Architectural products
- Industrial and commercial fittings
- Motor vehicle components e.g. windscreen wipers, roof racks
- Outdoor furniture

Pack Sizes

20kg boxes

Specific Gravity

1.5 to 1.6

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

AG543/5044 Matt Black is suitable for Corona Electrostatic spray equipment.

Fluidised methods can also be used.

Curing

Standard curing condition:

10 minutes @ 180°C

(PMT Peak Metal Temperature)

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

Film Properties

The recommended thickness for the cured powder film is 60-90 microns. Please note that it is not advised to go below 40 microns or to exceed 120 microns.

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

Panels baked for 10 mins @ 180 deg C.

Mechanical

Flexibility (conical mandrill) ASTM D522: Pass 6mm

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

Hardness (4000g) GS3900-E2: Pass (no penetration).

Chemical

Salt Spray (ASTM-B117): Pass @ 2000 hours. No corrosion creep <3mm from scribe.

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

Temperature Stability: Excellent for outdoor continuous exposure.

Chemical & Solvent Resistance

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

Cleaning / Maintenance

It is important that maintenance be done on a regular basis.

Dirt deposits from the atmosphere are often capable of causing damage to the coating surface and must be regularly removed. It is recommended that the coating be washed on a routine of three monthly intervals in marine environments and in areas prone to atmosphere fallout.

- Dirt and deposits should be removed with a wet sponge to prevent scratching.
- Cleaning should be done using a dilute solution of a mild liquid detergent in warm water.
- After cleaning always rinse thoroughly with clean fresh water.

Storage and Packaging

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

Shelf Life: 12 months minimum @ <30 deg 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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