



MARCH 2002

PE522/6662 MILLED ALUMINIUM

Matt Metallic Polyester



Product Data

Continuing with PPG Envirocron's advances in exterior durable metallic effect powder coatings comes PE522/6662 Milled Aluminium.

PE522/6662 Milled Aluminium is based on exterior durable sparkle pigments and a Polyester formulation that offers coatings with the following unique properties.

These properties include:

- Aesthetic metal effect.
- Excellent mechanical properties.
- Good powder transfer and spray characteristics (some arcing on high voltage guns possible).
- Similar appearance to anodised Aluminium
- Exterior durability

Uses

PE522/6662 Milled Aluminium is suitable for a wide variety of decorative applications, such as:

- Alloy road wheels.
- Interior / exterior furniture.
- Craftware products.
- Industrial products.
- Other items that require a distinctive smooth sparkle appearance.

Mainly for decorative use; a high gloss finish can be achieved with a clear topcoat if required.

Handling: It is advised that care be taken in handling items coated with PE522/6662 Milled Aluminium powder coating. In extreme circumstances a clear topcoat should be applied.

Substrates

Cold rolled mild steel (CRS)

Zinc coated steels

Aluminium alloys

Specific Gravity

1.4 – 1.5

Pre-treatment

CRS: Zinc phosphate

Zinc Coated Steels: Zinc phosphate or chromate conversion

Aluminium Alloys: Chromate conversion

Application

Corona electrostatic spray equipment (it is recommended that suitable metallic spray adaptors be used).

PE522/6662 Milled Aluminium is not suitable for tribostatic application.

Application Notes

The recommended film thickness for the cured powder film is between 60 and 90 microns. Due to the nature of the product it may not be reclaimable. An initial test should be done to determine if it is practical to reclaim.

Curing

Standard conditions are 10 mins @ 200°C (object temp).

Film Properties

Mechanical tests carried out on lightweight, zinc phosphate pre-treated panels with 50 micron (DFT) finish film. Panels baked for 10 mins @ 200°C (object temp).

Mechanical

Flexibility (conical mandrel) ASTM D522 Pass 3mm
Adhesion (2mm crosshatch) BS3900 Pass GTO
Impact resistance BS3900-E3 Pass 160-inch lb
Pencil hardness HB

Chemical

Salt spray (ASTM-B117): Pass @ 1000 hours <3mm from scribe
Cyclic humidity BS3900-F7: At 40 deg C, pass no blistering

Exterior Durability

Similar results to standard polyester solid colours. Application to be over approved pre-treatment system. Minimum film thickness to be 60 microns. For continuous exposure to exterior weather conditions please contact your local PPG Envirocron Technical Sales Representative.

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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