



As with all powder coatings, this product may vary between lot numbers, KV settings, mil thickness, oven temperatures, application equipment and technique. We recommend a clear topcoat to maintain the appearance and prevent oxidation on metallic powder coatings.

Always coat a sample before any production to determine if this product meets all your requirements.

Item Code / Color Name:

PMS-11661 Illusion Copper Flame

Suggested Cure Time and Temperature:

The cure time starts when the substrate reaches temperature. Always check temperature of thickest part of the substrate.

3 Minutes at 400°F (204°C)

Special Instructions / Notes:

Each additional coat of powder coating will act as an insulator, which will require extra time for the substrate to reach temperature. Extend cure times as needed.

To achieve the proper color, a clear topcoat must be applied. This color has limited UV and weather stability and should primarily be considered for novelty applications. Inconsistent mil thickness of the base coat or topcoat can lead to uneven color results. For optimal results, the base coat and topcoat should be applied at a mil thickness range of 2.5-3.5 each; flash the Illusion basecoat for 3 minutes after the powder flows to a gloss state with oven temperatures at 400°F. An applicator must visually confirm this state has been reached, as times will vary. Wait until the part has thoroughly cooled before applying the topcoat. After the topcoat has been applied, fully cure according to the topcoat's recommended cure schedule.

Powder Properties:

Thermosetting Powder Coating Powder Type: Polyester (Contains TGIC) Gloss: High Gloss: 85+ Gloss Units +/-5 Recommended Use: Exterior / Interior ** Limited UV stability** Adhesion/Crosshatch: 5B Mandrel Bend: 95% Resistance Indirect Impact: 80 Inch-pounds Direct Impact: 80 Inch-pounds Pencil Hardness: 2H Specific Gravity: 1.23+/-0.05 Finish Type: Metallic Storage: Store in a cool, dry environment 70° F (21° C) Shelf Life: 6-8 Months



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TECHNICAL DATA INFORMATION

Application:

Pre-treatment and proper prep to substrate before powder coating are critical factors in developing maximum corrosion resistance and maximizing the product's lifetime. Electrostatic spray to a cold substrate. Please see application guide for additional information.

Recommended Mil Thickness: 2.5-3.5 Mils

Equipment Information:

Gun System: Nordson Encore LT Fluidized Hopper Recommended Not Recommended for Tribo Application Suggested Nozzle: Conical Tip with Diffuser Alternative tips can be used but may cause color variation.

Testing parameters are as follows:

- Gloss Units and levels are measured at a 60° angle
- Adhesion is measured on a scale of 0B, 1B, 2B, 3B, 4B, 5B, with 5B being the highest achievable rating.
- Flexibility or Conical Mandrel Bend: "100% Resistance" is the highest achievable rating and indicates that the coating did not crack or spall.
- Impact Performance Direct/ Indirect: is measured on a scale of 0 inch-pounds to 160 inch-pounds, with 160
- inch-pounds being the highest achievable rating.
- Type of Substrate: Mild Steel Q panel/ Aluminum Q panel (Blasted/ Unblasted)

Not all powder coating is recommended for exterior use; it is the buyer's responsibility to ensure they purchase a product best-suited for the intended application. Certain pigment types, such as those found in the Illusion Series and Transparent powders, do not have the same level of UV resistance as those found in Solid Tone finish types.

Exterior topcoats applied to interior finishes may improve UV resistance and durability of the product but DOES NOT ensure a long-lasting exterior finish. Please conduct your own testing to ensure the products you choose meet your requirements.

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We believe the information in this bulletin is correct to the best of our knowledge and testing. The recommendations and suggestions herein are made without guarantee or representation of results. We recommend that you make adequate tests in your laboratory or plant to determine if this product meets all your requirements.

