



PRISMATIC POWDERS: | 7050 SIXTH STREET | WHITE CITY, OR 97503 | 866-774-7628 | PRISMATICPOWDERS.COM

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

Product Number and Name: PMS 10786 Illusion Ice

Suggested Cure Time and Temperature: Flash 7 Minutes at 375°F

- Flash time prior to Top Coat 7 minutes after powder flows to a gloss with oven temperature at 375°F
- Follow the cure schedule for the Top Coat that is being used for final cure.

#### As always, the cure time starts when the substrate reaches temperature.

### Special Instructions / Notes:

For optimal results the base coat should be applied at a thickness of 2.0-3.0 mils.

Please note, color will not be correct until the clear topcoat such as PPS 2974 Clear Vision has been applied. The base coat must cure with the topcoat to achieve the proper color. Less than 100% topcoat coverage will yield inconsistent results in color. The Illusion series base coat is not tribo compatible.

<u>Note:</u> 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.

<u>Powder Properties</u>: Thermosetting Powder Coating Powder type: Polyester Specific Gravity: 1.43+/-0.05 Storage: Store in a cool, dry environment 70° F Shelf Life: 6-8 Months

### Application:

Pretreatment 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 Recommended Mil Thickness: 2.0-3.0 Mils

Equipment information: Fluidized Hopper Recommended Not Recommended for tribo application Suggested Nozzle: The standard nozzle used at prismatic powders is the conical tip with a 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 OB, 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.

# **Testing Results**

Type of Substrate: Mild steel Q panel/ Aluminum Q panel

Cure Method: Flash 7 Minutes at 375°F

Nozzle type used for testing: Conical

Average Mil Thickness of panels: 2.0-3.0 Mils

KV settings- 50

Gloss Unit	85+ GU
Gloss Level	High Gloss
Adhesion	5B
• Flexibility or Conical Mandrel Bend	98% Resistance
Impact Performance - Direct	80 Inch-pounds
Impact Performance - Indirect	80 Inch-pounds
Pencil Hardness	2Н-Н

## PLEASE NOTE

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 <u>DOES NOT</u> ensure a long-lasting exterior finish. Please conduct your own testing to ensure the products you choose meet your requirements.

Applicable for products manufactured after 1/24/2022 Revisions 6/6/2022

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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.