PRISMATIC POWDERS

APPLICATION GUIDE

WITH TECHNICAL DATA INFORMATION

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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.

Product Number and Name: PPB 10308 Supernatural Blue

Suggested Cure Time and Temperature: 10 Minutes at 400°F

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

Special Instructions / Notes:

* Limited UV Resistance*

PPB 10308 Supernatural Blue is a clear metallic topcoat. To achieve the color as shown on the main product page, PSS 0408 Cloud White must be applied as a base coat.

Note: 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.

Powder Properties:

Thermosetting Powder Coating
Powder type: TGIC Polyester
Specific Gravity: 1.42+/-0.5
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:

- **UV and Weather Resistance** The test panel undergoes several cycles of UV exposure, followed by condensation exposure. All cycles are repeated continually until analysis is stopped.
- **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.

Testing Results

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

Cure Method: 10 Minutes at 400°F

Nozzle type used for testing: Conical

Average Mil Thickness of panels: 2.0-3.0 Mils

KV settings- 50

• **UV and Weather Resistance**	**Recommended for interior use**
• **Gloss Unit**	**71-85 GU**
• **Gloss Level**	**Gloss**
• **Adhesion**	**5B**
• **Flexibility or Conical Mandrel Bend**	**98% Resistance**
• **Impact Performance - Direct**	**80 Inch-pounds**
• **Impact Performance - Indirect**	**80 Inch-pounds**
• **Pencil Hardness**	**2H-H**

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 DOES NOT 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 1/11/2022
Revisions: 5/24/2022

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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.