



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: USS 2603 Gloss Black

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

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

Special Instructions / Notes: None

**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: Polyester (Contains TGIC)

Specific Gravity: 1.29+/-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

#### Equipment information:

Fluidized Hopper Recommended

Tribo Compatible

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 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

KV settings- 50

- |                                              |                            |
|----------------------------------------------|----------------------------|
| • <b>Gloss Unit</b>                          | <b>85+ GU</b>              |
| • <b>Gloss Level</b>                         | <b>High Gloss</b>          |
| • <b>Adhesion</b>                            | <b>5B Average Adhesion</b> |
| • <b>Flexibility or Conical Mandrel Bend</b> | <b>100% Resistance</b>     |
| • <b>Impact Performance - Direct</b>         | <b>160 Inch-pounds</b>     |
| • <b>Impact Performance - Indirect</b>       | <b>160 Inch-pounds</b>     |
| • <b>Salt Spray</b>                          | <b>1,000 Hours</b>         |
| • <b>Pencil Hardness</b>                     | <b>2H</b>                  |

## **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 12/22/2022  
Revision 12/22/2022

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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.