

Valspar offers several finishes with a metallic or pearlescent appearance in our extrusion and coil coating product lines. Fluropon Classic® and Fluropon Classic® II are available in both spray and coil formulations. Acrodize coatings are available only in spray formulations.

When a sparkle effect is desired, we recommend using the newer, mica flake formulation technology due its many advantages. Although similar in appearance, pearlescent coatings are formulated with mica flakes while metallic coatings are formulated with metal flakes.

Mica flakes offer better color consistency and it is easier to work with them. They minimize “tiger striping” and the “flop-of-flake” effect in spray application. This phenomenon can make the color appear different from panel to panel. The mica flakes found in Fluropon Classic II will not pick up an electrostatic charge or follow the back and forth movements of electrostatic application equipment like metal flakes will.

Fluropon Classic® II is a two-coat 70% Kynar 500® or Hylar 5000® (PVDF) system. It consists of a color primer coat and a durable pearlescent color coat that utilizes inert, non-conductive mica pigmentation rather than aluminum metal flakes. A clear coat is usually not required because the mica pigmentation does not react with harmful elements in the same manner as aluminum metal flakes react.

Fluropon Classic® is a three-coat 70% Kynar 500® or Hylar 5000® (PVDF) system. It consists of a primer coat, a durable aluminum metal flake color coat and a clear topcoat.

A clear topcoat is required as a measure of protection against harmful environmental elements. It forms a barrier between the metallic flake and harmful environmental elements such as acid rain, salt spray, and general air pollution.

Acrodize® coatings are one or two-coat 50% Kynar or Hylar (PVDF) systems available for spray application. It consists of an optional primer coat and a durable mica pearlescent color coat. The color coat consists of the same durable ceramic pigmentation as our full strength 70% Kynar 500 or Hylar 5000 systems. Acrodize is a colorful alternative to anodizing.

Key Differences Between Mica and Metallic Paint Systems

Mica	Metallic
Improved overall color consistency	Prone to “flop-of-flake” effect
One or two coat system	Three or four coat system
Clear coat optional	Clear coat required
Generally less expensive overall due to fewer coats	Generally more expensive overall due to more coats
Inert	Reacts with elements

COIL COATINGS

- Use one batch when possible.
- Apply at room temperature — above 70°F and below 100° F.
- Special primers may be required.
- Apply three rolls for best flow and appearance.
- Identify application direction by stenciling.
- Slow uniform agitation during application.
- Filtration thru 400 Micron bag or equivalent.
- Proper film thickness is critical for long-term performance and color consistency.
- Visual color is most important. Color difference numbers can be misleading and should only be used as a guide.
- Use coils from same batch when possible.
- Direction of application critical for color consistency.
- Coils and sheets should be dry. No moisture.
- Care in handling to minimize touch-up.

EXTRUSION COATINGS

- Use one batch when possible.
- Apply at room temperature — above 70° F and below 100° F.
- Special primers may be required.
- Minimize use of slow solvents.
- Minimize touch-up after automatic application.
- Slow uniform agitation during application.
- Filtration thru 150 Mesh or 100 Micron bag.
- Integrate project for level and elevation into spray schedule.
- Indicate application direction by stenciling.
- Proper film thickness is critical for long-term performance and color consistency.
- Visual color is most important. Color difference numbers can be misleading and should only be used as a guide.
- Use one application when possible.
- Direction of application critical for color consistency.
- Keep dry. No moisture.
- Care in handling to minimize touch-up.

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