

MACS COATINGS

PASSION • VISION • PRECISION

MONTHLY GUIDE

Understanding the Powder Coating Process

A complete overview of how durable, high-quality finishes are created

What is Powder Coating?

Powder coating is a durable and environmentally friendly finishing process used to apply a protective and decorative layer to metal surfaces. Unlike traditional liquid paint, powder coating applies a dry powder that is cured under heat to create a hard, smooth, long-lasting finish. It is widely used across residential, commercial, and industrial applications because of its superior performance and clean application process.

The Powder Coating Process — Step by Step

At Macs Coatings, every project follows a proven process designed to deliver consistent, high-quality results:

1. Surface Preparation

Success begins with a clean surface. Contaminants such as oil, dirt, rust, and old coatings are removed through thorough cleaning and, when needed, sandblasting or chemical treatments. Proper preparation ensures the powder adheres correctly and the finish lasts for years.

2. Application of Powder

A dry powder is applied using an electrostatic spray gun. The gun imparts an electrostatic charge to the powder particles so they cling evenly to the grounded metal surface. This creates uniform coverage, even on complex shapes and edges.

3. Curing

The coated item is placed in a curing oven (typically around 400°F / 204°C). Heat melts the powder, allowing it to flow and chemically cross-link. This reaction creates the tough, durable film that powder coating is known for.

4. Cooling & Inspection

After curing, the part cools and is carefully inspected. Our team checks for full coverage, adhesion, and any imperfections such as pinholes or uneven areas. Only parts that meet our standards move forward.

5. Quality Control & Delivery

Final quality checks confirm the finish meets both our internal standards and your specifications. Most customers pick up finished work at our Salt Lake City facility; delivery is available when needed.

Why Choose Powder Coating?

- **Exceptional Durability** — Resists chipping, scratching, fading, chemicals, and extreme weather far better than conventional paint.
- **Environmentally Friendly** — Contains no VOCs. Overspray can be collected and reused, reducing waste.
- **Wide Color & Finish Range** — Available in virtually any color plus textures, metallics, and specialty effects.
- **Cost-Effective Long Term** — Longer service life means fewer re-coats and lower maintenance costs.
- **Versatile Applications** — Ideal for steel, aluminum, and many other metals used in railings, gates, rims, furniture, signs, and industrial components.

Ready for a finish that lasts?
Call Macs Coatings today for a free estimate.
(801) 441-3175 • macscoatings.com
Same-day service available • Full one-year warranty

Macs Coatings is a family-owned business proudly serving residential, commercial, and industrial customers throughout the Salt Lake City area.