

BACKYARD Technologies

Storm Protection

Specifications Marine Powder Coating

Corrosion Resistance:	Formulated with high-performance resins (e.g., epoxy, polyester) and anti-corrosive pigments. Protects against saltwater, humidity, and harsh weather conditions.
UV Stability:	Specialized formulations resist fading, chalking, and degradation from prolonged UV exposure.
Durability:	Highly resistant to abrasion, impact, and wear
Environmentally Friendly:	Unlike liquid paints, powder coatings are free of volatile organic compounds (VOCs), making them safer for the environment

How Marine Powder Coating Works:

Surface Preparation:

1. The surface is thoroughly cleaned to remove rust, grease, or contaminants.
2. Sandblasting or chemical treatments ensure the surface is ready to bond with the coating.

Powder Application:

1. Dry powder made of resins, pigments, and additives is electrostatically sprayed onto the metal.
2. The charged particles adhere uniformly to the surface.

Curing:

1. The coated part is heated in an oven, where the powder melts and bonds to the surface, forming a continuous protective layer.
2. Curing times and temperatures depend on the specific powder used.

Advantages of Marine Powder Coating:

Longevity:

Extends the lifespan of marine equipment and structures.

Low Maintenance:

Reduces the need for frequent repainting or repairs.

Cost-Effective:

Though initial application may be higher in cost, the long-term savings on maintenance make it economical.

Eco-Friendly:

No VOC emissions, recyclable overspray, & minimal waste.

Seamless Coverage:

Provides even protection without drips or sags.