

# PREVLON

## Protection & Prevention Coatings

MBI's Prevlon coatings are designed to protect parts and machinery from the harshest conditions they may encounter. Parts needing extreme corrosion protection, hydrophobic properties, mechanical or electrical insulation, abrasion resistance, or all of these properties combined, will benefit from Prevlon coatings. Popular Prevlon coatings include Nylons (aka Rilsan), Polypropylene (& other plastics), Epoxy lining, Polyurethane, and Ceramic Resin coatings that will stand up to any environmental or mechanical abuse thrown at them.

MBI can utilize thermal spray Hastelloy®, stainless steel, aluminum and other materials as a base coat for added adhesion and to improve upon already impressive properties for a wide variety of applications. Such barrier coatings allow us to engineer something specifically for your application, if you come to us with a problem we have the resources, experience and knowledge to find you a solution.

### Typical Properties:

- ◆ **Toughness and Impact Resistance:** Very high; 120+ inch-lbs (ASTM D2794)
- ◆ **Abrasion Resistance:** Excellent; <12mm Loss (ASTM D4060 Taber testing)
- ◆ **Adhesion:** Excellent (Embedded in to the metal sprayed layer > 6,000 psi. ) ASTM D4541
- ◆ **Tensile Strength & Flexibility:** Very high (ASTM D522)
- ◆ **Surface Finish:** Customizable; Typically ≈ 20 Ra
- ◆ **Salt Spray Test:** Up to 6,000+ Hours (ASTM B117)



### MAIN FEATURES:

- High chemical resistance for aggressive environments
- High temperature resistance
- Impact resistance (Blast-proof)
- Porosity-free coatings
- Thin or Heavy build-up coatings
- Excellent UV, corrosion & chemical resistance

### PREVLON as an ENGINEERING TOOL:

**Multiple Properties in One:** Prevlon coatings typically offer a magnitude of life-extending properties to the parts they are protecting. We have coatings that will prevent mechanical shock and provide insulation, while simultaneously protecting from aggressive corrosion.

**Prevent Before Repairing:** MBI has experience utilizing Prevlon coatings on parts and fixtures before being put into production in order to extend operating life. Allow us to prevent problems before they occur and minimize labor hours spent on repairs. We can meet strict blueprint guidelines on coating thickness, properties achieved, surface finish and more.



### Other advantages of PREVLON coatings include:

- Variable coating chemistry & thickness to accommodate any application
- Multitude of properties gained by specifying one of our engineered coatings
- Extreme toughness with abrasion and corrosion protection
- Can serve as a mechanical and/or electrical insulator
- Adjustable surface finishes ranging from rough to glossy smooth



## Application examples:

**Industries Include:** Manufacturing, Construction, Textile, Marine, Glass, Automotive, Oil & Gas, Mining, Power generation, etc.

**Machine Parts of All Types Where Wear & Corrosion Prevention properties is needed, such as:**

- ◇ Processing and conveying Rolls and Rollers
- ◇ Chemical industry equipment and parts
- ◇ Industrial Valve components (Gates, Seals, Body, Etc.)
- ◇ Pump parts including housings, impellers, covers, etc.
- ◇ Chutes, catch pans / trays, lids, covers, etc.
- ◇ Vessels, Pipes and containers
- ◇ Exhaust and blower equipment protection
- ◇ Waste water treatment components
- ◇ Transportation & Automotive applications of all types

## Typical Variations of PREVLON coatings:

**PREVLON 100** - Ceramic enforced polymer coatings, can be combined with thermal sprayed alloys, ceramics or carbides to offer an unsurpassed quality coating ideal for toughness, corrosion, mechanical shock and a variety of other unique properties.

**PREVLON 200** - Similar to 100-Series, but with greatly enhanced chemical resistance. Able to be submerged in acids or corrosive materials for long durations of time with zero degradation. Still can be combined with base materials for even greater resistance to all forms of chemical and abrasive attack.

**PREVLON 300** - Plastic Flame spray (polypropylene, polyethylene & fluoropolymers) thermal sprayed coatings, featuring fused adhesion to the metal surface. Wide range of protection including wear and severe corrosion

**PREVLON 400** - Nylon (aka Rilsan) coatings offer a wide array of excellent properties that include chemicals resistance and tough mechanical properties. Such coatings can be used to build-up printing roll surfaces.

**PREVLON 500** - Polyurethane type coatings, applied for harsh chemical environments and a wide variety of applications in various industries. This coating is the basis for popular "truck-bed liner" coatings.

**PREVLON PC** - High-Grade Powder Coatings with hundreds of color options. Excellent durability and uniform finish on small or large parts. Matte, Satin and Gloss finishes available in most every color. Custom and unique colors available as well.

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