



# PATRIOT

## POWDER COATINGS



**American Made Premium Grade Powders**

[www.PatriotPowder.com](http://www.PatriotPowder.com)

# AMERICAN MADE PREMIUM GRADE POWDER

Throughout history Americans have always taken great pride in the values of honesty, excellence, diligence, commitment, and a job well done. Here at Patriot Powder Coatings we follow the long lasting tradition by holding to these values. Our team of trained professionals will provide you with unparalleled service leaving you satisfied with excellent results. We not only take pride in these key values but also pride ourselves in the outstanding quality of our powder coatings. Whatever the need may be, our seasoned chemists and formulators will create a custom-designed powder coating that meets all the specific qualifications required. From high performance decorative and functional coatings to high temperature and FDA approved, Patriot will develop and manufacture the powder coating that fits your needs. We can meet the most demanding of deadlines, and also provide field support to ensure any and all processes run smoothly. Be it a single box or an entire truckload, Patriot has you covered. When you need the best, call Patriot Powder Coatings: American Made, Premium Grade Powder Coatings.



**Always exc**

## QUALITY:

Our high performance decorative and functional powders are formulated with state-of-the-art chemistries to meet the most demanding qualifications required. We will do our best to match, formulate, and provide the perfect powder to suit your specific needs.

## VARIETY:

Patriot Powder Coatings offers an almost unlimited selection of specialty, functional, and decorative powders including but not limited to...

- High temperature Resistant
- FDA compliant Coatings
- UL-Recognized exterior durable finishes for Steel enclosures with electrical components
- Compliant Super Durable Architectural Coatings
- NSF Compliant Coatings
- SEFA-8 Compliant Coatings for Laboratory cabinets
- Anti-Microbial Coatings

## RESULTS:

Different priorities, deadlines, and expectations present themselves everyday. They often need to be met and fulfilled as promptly as possible. We, at Patriot Powder Coatings, pride ourselves in excellent customer service. Your top priority becomes ours. From small quantities to full truck loads, we will put all our efforts into meeting the strictest and most demanding of deadlines in order to bring you 100% satisfaction every time.



**Meeting your expectations with our commitment to quality!**

# WE HAVE YOU COVERED

**Patriot Powder Coatings are used in diverse market sectors for applications that accept a thermoset coating.**

## APPLIANCE:



Meeting the typical requirements of desired physical properties, our powder coatings can be designed to match any color needed for appliance coatings. From stain resistance in laundry/kitchen appliances, to indirect food contact, to screening ink compatibility, we will provide coatings that meet your specific needs.

## CUSTOM COATERS:



Requirements for powder coatings widely vary company to company. We strive to streamline Custom Coater's products in compatible chemistries and similar cure parameters to meet these specific requirements. In order to achieve this, we can custom formulate a powder that fits your particular needs, or supply you with one of our standard powders, both featuring easy application and a top-of-the-line finish.

## ARCHITECTURAL:



Our technically advanced powders are developed to meet the specifications of AAMA 2604-98 and are available for exterior aluminum architectural trim and components. These coatings feature improved color stability as well as a 10-year plus track record. Patriot's TGIC and Super Durable Polyester Coatings will provide you with the protection that architectural products require.

## PARKS AND RECREATION:



Our UV resistant, super durable powder coatings are the perfect fit for park and recreation products. From picnic benches to playgrounds, we have you covered with our super durable polyester and TGIC coatings. We provide an attractive finish paired with the toughness needed for ultimate protection from an outdoor environment. These powders are also available with antimicrobial protection.

## AUTOMOTIVE:



Our coatings for automotive are compliant with the requirements of many OEM and T1 automotive suppliers. We provide coatings for underbody/under hood, wheels and rims, truck bumpers and lift gates, RV frames and components. Our customers find our coatings suitable for many different requirements. From mufflers to mirrors, we have you covered.

## ELECTRONICS AND ELECTRICAL ENCLOSURES:



Many of our polyester and urethane powders are UL listed, meeting DTOV2 requirements. Certification cards are available on request. We can also provide you with our "blanket certification" in order to reduce paperwork. Very fine textures and specialized finishes such as metallics are available for your electronic applications.



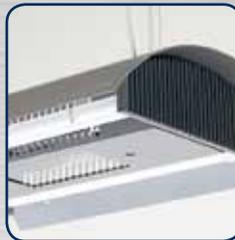
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## GENERAL INDUSTRIAL:



A complete line of high quality powder coating chemistries are available in our inventory. We also custom formulate for many desired properties such as chemical resistance, physical properties, special colors and long term durability. We can adjust our powder cure temperature to accommodate specific oven cure cycles.

## LIGHTING FIXTURES:



We offer powders for a full range of lighting purposes, including architectural, industrial, home, or marine. Whether flat, micro-textured, or hi-reflectance, we can provide a special and unique finish to meet your specifications.

## HIGH-HEAT RESISTANT FDA - COMPLIANT:



Our silicone based powder coating with high heat resistance can withstand temperature up to 1000° F. This product line is suitable for a wide variety of applications, such as fireplaces, heat exchangers, barbeques, heating appliances, automotive mufflers and headers, as well as other industrial applications

FDA compliant coatings are also available for direct and indirect food contact. We offer these coatings in a variety of colors and finishes.

## METAL FURNITURE AND FURNISHINGS:



In this field it is important to have equal focus on decorative qualities as well as great functionality. Impact, scratch, and stain resistance are incorporated, along with other requirements for all types of metal furniture. Patriot provides TGIC powders, which are excellent for coating metal racking and file cabinets, as well as industrial equipment. Focusing on the same detailed tests and requirements, these coatings provide outstanding protective and decorative properties.

## LAWN AND GARDEN EQUIPMENT:



When dealing with a working outdoor environment, polyester and urethane coatings provide the toughness needed for ultimate protection. They also provide excellent fuel and hydraulic fluid resistance, providing both an attractive and durable finish over the entire life of the substrate. Superior UV protection & long term durability can be achieved with our Super Durable TGIC Polyester powder coatings.

## PREMIUM GRADE POWDERS:



Our State-of-the-art powder coating chemistries are designed to meet performance, aesthetics, and application requirements of our many diverse customers. Anti-Microbial and fingerprint resistant coatings have become a desired technology for many key customers.

# PROVEN TECHNOLOGIES

**We deliver proven state-of-the-art powder coating chemistries to meet the performance, aesthetic, and application requirements of our customers.**

## SUPER DURABLE POLYESTER

This coating is also known as “enhanced polyester,” providing superior UV and weathering resistance. Having excellent leveling and smoothness, plus significantly increased hardness over Kynar or other fluoropolymer filled products, it has a proven track record of 10 years in Architectural applications. This coating meets AAMA 2604-98 requirements.

## TGIC POLYESTER

This is the most “forgiving” exterior powder coating (vs “non TGIC” polyesters). Excellent weatherability, toughness and color stability are hallmarks. Appearance is best at 1.5 mils and over. Very flexible, these coatings can be “post formed” provided proper tooling setups are used. A wide range of cure temperatures and dwell times can be used.

## POLYESTER URETHANE

Provides excellent leveling, smoothness and gloss. Superior hardness can be achieved (usually one “pencil” more than TGIC) and is designed for relatively low film build. Certain chemical resistances can be developed to a high level. This product is sensitive to cure parameters; they must be closely followed for optimum results.

## NON TGIC POLYESTER

This coating uses a “Primid” type curing agent, developed as an alternate to TGIC curing systems. These coatings are used on a decreasing basis, primarily due to appearance issues at heavy film thicknesses. New raw materials and processes are continuously evaluated for ongoing product development and enhancement — improved properties, lower cost!

## EPOXY

For interior and non-critical weathering applications where chemical, electric, or possible livestock ingestion environments are encountered. Typical applications are on lab furniture, water/well pumps, certain engine components, children’s toys, certain electrical components, and livestock gates/fence posts. While “chalking” will occur progressively on outdoor exposure, protective properties are not impaired.

## EPOXY / POLYESTER HYBRIDS

For interior use where indirect UV exposure occurs, or where much better color stability in varying cure cycles is desired. Achieving a good balance between Epoxy and Polyester, this coating is the best choice for display/store shelving and most indoor appliances.

## HIGH-HEAT RESISTANT/ FDA-COMPLIANT

Patriot Powder Coatings offers silicone resin based powder coating with heat resistance up to 1000° F. This product line is suitable for a wide variety of applications including fireplaces, barbecues, heating appliances, heat exchangers, automotive mufflers and headers, and other industrial applications. Also offered are FDA compliance coatings for direct and indirect food contact. These are available in a variety of colors and finishes, as well as with antimicrobial properties.

## SPECIAL FINISHES

- TEXTURED
- HAMMER TONE
- RIVER TEXTURE
- TRANSLUCENT
- GASSING-RESISTANT
- METALLIC / BONDED METALLIC
- WRINKLED
- MATTE FINISH
- CLEARS
- ANTIQUE FINISH



# IF YOU HAVE A PROBLEM... PATRIOT POWDER HAS A SOLUTION!

## COMMERCIAL ARCHITECTURAL LIGHTING

### PROBLEM

After one thousand hours of continual use, UV degradation caused "yellowing" finish on recessed lighting fixtures.

### SOLUTION

A high reflective, low gloss coating which was easy to clean, yielding a minimal color shift after several thousand hours of continual use.

### PROBLEM

Linear lighting fixtures comprised of steel and aluminum had inconsistent final finishes, caused by raw material variations and fabrication processes.

### SOLUTION

Textured and smooth coatings, available in easy clean, durable and high fashion colors, were applied at cost-effective rates.

## HEAT EXCHANGERS IN MILITARY VEHICLES

### PROBLEM

A standard cure powder used on heat exchanger cores for military vehicles would not meet the requirements causing loss of performance properties, as well as flaking and chipping when used in the field.

### SOLUTION

Patriot's high heat powder applied instead. Powder maintains performance properties, holding up in the heat of battle.

## ELECTRONICS AND ELECTRICAL ENCLOSURES

### PROBLEM

Coatings on enclosures, cabinets and components suffered damage during assembly operations that resulted in slow production and increased need for rework.

### SOLUTION

Textured and smooth coatings with superior adhesion, impact resistance, and lubricity were used, which eliminated chipping and scratching problems during assembly while allowing for normal production rates.

## GENERAL METAL FABRICATION

### PROBLEM

Rods, tubes, posts and similar items could not be coated and cured within the Customer's stringent time/temperature parameters. Powder had to be applied to a pre-heated part, then cured for a few seconds without additional heating, and finally quenched in cold water to conform to the desired line speed and space constraints.

### SOLUTION

A unique, catalyzed coating that exceeded the process parameters, achieved full cure with 90% less energy, and allowed the Customer to achieve a 10% increase in productivity due to increased line speed. As an added benefit, Patriot Powder Coatings did not clog the Customers dual collector filters.





**AMERICAN MADE PREMIUM GRADE POWDER**

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