Visit www.sternberglighting.com for more product details and LED updates
Sternberg is well known for its timeless designs. Traditionally styled electric lighting fixtures have been installed on streets and walkways for over one hundred years. Of that one hundred years Sternberg has been in business for more than ninety of them. Longevity is very important to us and to our customers. That is why we have created a best in class powder coat application process in our facility custom made by our own coatings team and certified by powder manufacturers.
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How do our products last through a service life of 30+ years without corrosion and serious degradation of the aluminum substrate and structure?

The answer is Sternberg’s Polyester Powder Coat system. We apply the highest quality coatings in the industry, over pre-treated aluminum. Our coating process is used to protect fabricated lighting equipment in normal four season environments, harsh northern and desert climates, as well as punishing coastal ocean applications.

Sternberg’s 5 year coatings promise for aluminum products

1. Our coatings will meet or exceed municipal and roadway requirements for street and area lighting equipment.
2. Our unique process will guard against color fading of more than five (5) units as measured by the Hunter L*A*B* color difference set forth in ASTM D523 using 60 degree readings.
3. Our coatings will retain a minimum of 60% of its original gloss as measured in accordance with ASTM D523.
4. Our coatings will not chalk in excess of the standard number 8 rating for colors and number 6 for whites illustrated in the ANSI D4214 test method A.
5. Our coatings and substrate will not corrode or show lack of adhesion.

Note: There is a 1 year coatings promise for STEEL products.
**coating process**

**Stage I** All products to be coated shall receive a 96 second alkaline cleaner (5219) application followed by a fresh water rinse at ambient temperature.

**Stage II** A 60 second phosphoric acid 4% solution treatment is added with a fluoride accelerant (2147) followed by a 48 second reverse osmosis water rinse at ambient temperature. The rinse is followed by a high pressure air spray to remove all moisture from the product.

**Stage III** 48 second non-chrome polymer sealer (4500) is applied.

**Stage IV** 16 minutes in a drying oven at 400 degrees.

**Stage V** The electrostatic application of polyester powder is applied in a downdraft spray booth by automated articulating robotic arm sprayers and application technicians. Polyester powder overspray is recoverable and reusable.

**Stage VI** 25 minutes in curing oven at 450 degrees to cure the powder application creating a hard, durable finish. Final appearance is achieved in this step, ie gloss, texturing, etc. Curing is followed by 9.5 minutes in a cooling tunnel prior to un-racking.

**Inspection**

After cooling and un-racking, each part is inspected for quality and consistency before being released for shipment. Quality tests include:

- Cross hatch for adhesion
- Solvent rub for proper curing

Testing of raw powder is also done at the powder manufacturer. Tests include:

- Fade Test — < 5.0 Δ E
- Gloss Retention — 60% for five years
- Salt Spray — ANSI - 2604  5 years, 4,000 hours
  — ANSI - 2605  10 years 5,000 hours
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For coating requirements in particularly harsh environments, such as ocean fronts, where extra protection is needed, Sternberg offers optional “Coastal Coatings”. We apply a Zinc enriched Polyester primer and then a AAMA 2604 Super Polyester top coat for a long lasting and durable barrier against salt spray environments. Our standard warranty still applies when using this process.

If circumstances demand even greater protection, Sternberg Lighting can apply AAMA 2605 Fluoropolymer Coraflon powder. This is the very best finish available. Please consult the factory for price, warranty and delivery for this treatment process.
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finishes

Standard Finishes*  Traditional Products

BKT  Black Textured
WHT  White Textured
PGT  Parch Green Textured
ABZT  Arch. Medium Bronze Textured
DBT  Dark Bronze Textured

Select Finishes*  Traditional Products

VG  Verde Green
SI  Swedish Iron
OWCT  Old World Gray Textured

UrbanLine Standard Finishes*  UrbanLine and Contemporary Products

BKT  Black Textured
UB  Bronze Matte
UBT  Bronze Textured
ULB  Light Bronze Textured
ULBT  Light Bronze Textured
UWH  White Matte

UCHS  Champagne Satin Smooth
USL  Silver Matte
USLT  Silver Textured
UGM  Gun Metal Matte
UGMT  Gun Metal Textured

Custom Finishes*  All Products – Consult Factory For Pricing & Availability

CM  Custom Match
OI  Old Iron
RT  Rust
WBR  Weathered Brown
CD  Cedar
WBK  Weathered Black
TT  Two Tone

RAL Colors*

7038  Agate Grey
6009  Fir Green
7026  Granite Grey
6005  Moss Green
3004  Purple Red
5002  Ultramarine Blue

* Smooth finishes available on request.
* All colors shown are approximate and may have a slight variation.
Since 1923, Sternberg lighting has maintained its position as a leader in the street lighting industry by utilizing the latest technological advancements.

Today, our energy efficient LED street lighting luminaires have set a new standard for municipalities, universities, utilities and commercial entities seeking energy cost savings.

Sternberg Lighting is a US manufacturer located in Roselle, IL and is employee owned.

See our complete catalog on-line at:

www.sternberglighting.com