

FINISH & PAINT PROCEDURE

Beacon Finishes Are Environmentally Friendly

In this day and age of increasing environmental awareness and being aware of your need in wanting environmentally friendly products Beacon Products is taking a leading role by introducing a brand new, 'state of the art' finishing solution for architectural aluminum.

Beacon Products, headquartered on the Gulf Coast of South-Central Florida, has been engineering and manufacturing products for 30 years to withstand the tropical sun, UV and heat, and salt air so well-known in this part of the world.

Our confidence in our finish comes from a thorough understanding of the three major steps (metal preparation, chemical pretreatment and the final powdercoat paint).

Our superb powder coat finishes are warranted for 5-years and optionally available with a 10-year warrantee.

Chrome-Free Pretreatment For Aluminum

Although chrome conversion coatings offer many advantages, the downside is that they contain hexavalent chromium, or chromate, species that are known carcinogens. The risk of worker exposure to these chemicals, the potential liabilities due to accidental leaks to the environment, and waste disposal issues are making the use of chromate-based conversion coatings unaffordable.



Beacon's chrome-free organic conversion pretreatment for Aluminum

Stage-1 consists of an alkaline soak cleaner designed to remove oily soils from ferrous metals, copper, and aluminum. It contains silicates and will not etch aluminum surfaces.

Stage-2 consists of a cold fresh water rinse. It is important to have good, cold water rinsing. The flow of fresh water through the rinse regulates with the rate of production so that the main body of the rinse will not become excessively contaminated.

Stage-3 consists of a high performance, multi-metal detergent iron phosphate. It is a mildly acidic liquid that will produce an amorphous iron phosphate coating. It contains a synthetic surfactant system and is biodegradable.

Stage-4 consists of a cold, fresh water rinse.

Stage-5 consists of a high performance, final chrome free sealing rinse, which enhances the salt spray performance of conversion coated metal parts.

Beacon Products Powder Coating Finishes For Aluminum

Beacon Products is using thermosetting powder coatings offering true environmentally friendly metal finishing solution by not containing or emitting Volatile Organic Compounds into our atmosphere, In comparison to commonly known Polyester powder coatings, the performance characteristics can be compared with fluoropolymer systems currently used in the architectural, as well as, the coil-coating-industry-offering up to four times greater resistance than the South Florida weathering resistance of conventional powder coatings.

Product description: The system is a process combining optimum corrosion protection with the highest weather-ability. This process warrants an optimum non-porous film as well as excellent UV protection through the use of high quality polyester powder coatings. The minimum coating thickness is 2.8 mils, the exceptions being edges and corners. All coatings are cured at a minimum of 390-F for 22 minutes.

Preheating: Preheating is used to bring materials up to a suitable temperature. With this added step powder coating thickness is increased, thereby giving a longer, more durable finish. Preheating is also used to out-gas porous cast aluminum parts prior to painting and to dry parts after pretreatment.



TEST RESULTS ON ALUMINUM

Corrosion Resistance Humidity Resistance 3000 hrs ASTM D 2247	Formation of blisters not to exceed 'few' blisters size #8 as shown in Figure 4.0 ASTM D 714	No Blistering
Salt Spray Resistance 3000 hours ASTM B117	Minimum rating of 7 on scribe or cut edges, and a minimum blister rating of 8 within the test specimen field. Reference modification of ASTM D 1654	No Undercutting

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Colors

Actual paint Chips are available. Contact your representative for a set of sample paint chips.

For additional colors, consult factory, more than **150 RAL colors are available**, in addition to special blends of our powder coatings.

Standard Colors

Green



White



Black



Bronze



Gray RAL 7045



Silver



The Meridian Gateway Project,
Tampa, Florida





Premium Colors

Florentine

Aged Silver

Aged Bronze

Verde Green

Aged Copper



5 YEAR LIMITED WARRANTY

Limited Warranty:

Beacon Products warrants its products against defects in materials and workmanship for proper usage for a period of 5 years after date of production, when properly installed, maintained and appropriately specified. (For maintenance recommendations please contact Beacon Products, Inc.) The customer shall then notify Beacon Products, Inc. within 10 working days of observing any defects, other than normal wear and tear, gloss/color retention, as determined by the manufacturer. Upon preliminary determination of warranty validity, and actual defects, a Return Materials Authorization number will be issued. If so advised by Beacon Products, Inc., the customer shall, at their expense, return the product to the factory where a final determination on the validity of the warranty claim shall be made. This warranty applies only to products manufactured by Beacon Products, Inc. and does not apply to products manufactured by other manufacturers used in conjunction with our products. Beacon Products, Inc. shall not be responsible for any liabilities incidental to the warranted product including, but not limited to, freight charges to deliver the product to or from the factory, penalty or late charges, labor to remove or install warranted products. Installation of a lamppost without a fixture, the unauthorized attachment of decorations, banners, flags, etc., or supplying incorrect wind loading or application information shall void the post warranty. Electrical components are warranted by their manufacturers for a period of 1 year.

Warranty on Poles:

Any poles ordered hereunder are warranted to be designed in accordance with generally accepted engineering practice. The warranty of the design of these products is limited to their ability to withstand, without destruction, stress loads applied to the product at or before the time of proper installation, or to an identically designed product. These test loads are to be calculated equivalents of the yield strength loads for which the products are designed and as are represented on Seller's approved design drawings. Where specifications are set forth, minimum standards shall apply. The calculated relationships between strength loads and wind velocity, presented in Seller's catalog are derived from generally accepted engineering authorities, and are presented for the convenience of the customer only. For the exact pole loading and rating within specific luminaire projected area, consult factory.

Modification:

No modification or any variation of contract shall be binding unless in writing signed by both parties, and no waiver by Seller of any default shall be deemed a waiver of any subsequent default.

Not Covered Under This Warranty

Surface finish on after-market or replacement parts not supplied by Beacon Products, Inc. Damages resulting from improper use, negligence, accident, foreign material attached to the equipment and damages caused during installation. Surface deterioration resulting from acts of God, severe conditions, hail, acid rain, airborne materials, tree sap, water immersion, reclaimed water, fertilizer and exposure to other caustic materials.