

iLumi-glo

Photoluminescent Safety Epoxy

Proudly Made in the USA.

High Performance Photoluminescent Building Egress Safety Epoxy

iLumi-Glo is a 100% Solids, 2-Part photoluminescent spreadable epoxy specifically formulated to be a durable, cost-effective solution for luminous safety egress markings in a wide range of building, maritime and safety applications. Its unique combination of advanced resin technology and high quality raw materials produce unequalled performance - The result is an attractive, highly durable finish, that will maintain performance standards over time. Charges with ambient light, always on. No electricity required.

- **100% Solids - 2 - Part Epoxy Formulation**
- **Precise, consistent mixing with no pigment settling**
- **Pre-Measured Part A + B**
- **Applied over white primer base coat**
- **Paintable or Trowel-On applications**

GENERAL INFORMATION

- 100% Solids Proprietary Epoxy Coating
- Part A Epoxy Base + Part B Activator - Consistent field mixing with precise dispersion of phosphor. No settling occurs which results in consistent glow characteristics.
- High intensity persistent phosphor formulation.
- Very Low VOC (<20 g/l - as defined by 40CFR 51.100)
- Charges from ambient light. Always on. No electricity required.
- Advanced epoxy resin technology - Extremely durable: resists chipping, fading, cracking and peeling.
- Applied over approved white primers on concrete, wood, metal, PVC and composites.
- Recommended Thickness - 10 mils (100% solids, minimal shrinkage).
- Drying Time - 3 hours at 70° F (dependent on temperature, humidity and ratio Part A to Part B).
- Covers approximately 100 sq. ft per gallon (1200 linear feet with 1" stripe).
- Available in Quarts or Gallons (Part A) with appropriate amount of Part B Activator.
- 1 year shelf life

APPLICATIONS

- New construction and existing building upgrades
- Photoluminescent (luminous) egress stairwell markings - step edge, handrails, landings and obstructions
- Signage - way-finding, directional, floor symbols, critical systems, first responder access, disaster recovery
- Transportation and Maritime: Loading platforms, steps, docks, ramps, gangways, critical systems, emergency equipment, egress and sheltering
- Commercial construction, buildings, schools, theaters, stadiums, residential, transportation, marine

PERFORMANCE CHARACTERISTICS

- Vibrant, uniform glow with glare or harshness
- Chemical and weather resistant
- Highly compatible with majority of polymers
- Minimum time to full charge - 1 hour
- Maximum glow time - 8 - 10 hours
- Long working time - activator designed to provide up to 1 hour pot life
- Robust photolytic stability provides consistent glow with no degradation of light emission over time
- Adjustable viscosity and cure time - can alter ratio Part A and B to adjust viscosity and cure time

* 7.4 mil masking Form Tape available for 1 coat, trowel-on application. (additional cost)

Form tape is applied over blue painters tape to create 12-13 mils deep, 1" wide slot to apply primer and epoxy. Form tape allows for 2-3 mils primer and 10 mils iLumi-Glo to achieve consistent, compliant levels of illumination as a field applied product. Epoxy is applied in the slot using included squirt bottle and is smoothed into the form with a flat taping knife. New metal taping knife recommended over plastic for smoother more consistent spreading of epoxy.

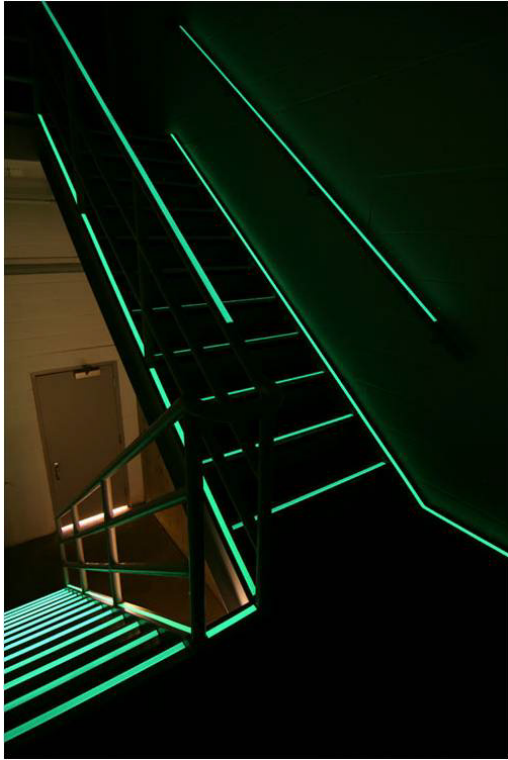


ENVIRONMENTALLY FRIENDLY

- LEED points qualified
- Zero energy consumption
- Non-Radioactive and Non-toxic
- Low utilization of rare earth materials
- Long maintenance cycle - 8-10 years

KIT INCLUDES

- 1 gallon Epoxy Part A
- 1 quart Activator Part B
- Quart can pour top
- 16 oz. Squirt bottle for trowel-on applications
- Mixing and Application instructions
- Optional form tape available * (see details below)
- Shelf Life 1 Year
- Warranty 10 years



COMPLIANCE FOR BUILDING EGRESS SYSTEMS *

iLumi-Glo Photoluminescent Epoxy Coating is formulated for applications providing a minimum illumination of 1 ft.-candle of ambient light for 1 hour per day (ambient illumination readings taken at floor level where applicable). iLumi-Glo Photoluminescent Epoxy Coating is designed to exceed the performance requirements for Luminous Egress Path Markings. iLumi-Glo meets or exceeds the performance criteria specified in the following tests and standards:

Photoluminescent Materials: Comply with UL 1994 and / or ASTM E 2072/E2073, where the charging source shall be 1 foot-candle (11 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 millicandelas per square meter at 10 minutes and 5 millicandelas per square meter after 90 minutes.

- International Building Code (IBC) - 2009-2012 (Section 1024 – Luminous Egress Path Markings) and 2015 (Section 1025)
- International Fire Code (IFC) - 2009-2012 (Section 1024 – Luminous Egress Path Markings)
- NFPA Life Safety 101 - (2012)
- NYC LL 141 of 2013 (Section BC 1024 Luminous Egress Path Markings)
- California Building Code Section 1024 Exit Passageways
- Connecticut State Fire Safety Code Section 1026 Floor Proximity Egress Path Markings

BENEFITS AND TECHNICAL DETAILS:

iLumi-Glo meets or exceeds the performance criteria specified in the following test and standards:

BRIGHTNESS- High Visibility in light or dark conditions.

ASTM E2073-02, Standard Test Method for Photopic Luminance of Photoluminescent (Phosphorescent) Markings.
DIN 67510 Part 1, Phosphorescent Pigments and Products: Measurement and identification by the manufacturer.

UV STABILITY - High durability indoors and outdoors.

ASTM G155-04 Cycle 1 2000hrs, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials.
Salt Spray Resistance: ASTM B117-97 500hrs, Standard Practice for Operating Salt Spray (Fog) Apparatus.
Freeze-Thaw Resistance: ASTM C1026-87(1996), Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling

ABRASION RESISTANCE - Hard wearing.

ASTM D1242-95a, Standard Test Methods for Resistance of Plastic Materials to Abrasion.
ASTM F510-93(2004), Standard Test Method for Resistance to Abrasion of Resilient Floor Coverings Using an Abrader with a Grit Feed Method.

WASHABILITY - Easy Cleaning.
ASTM D4828-94(2003), Standard Test Methods for Practical Washability of Organic Coatings.

RADIOACTIVITY - No radioactivity or toxicity.
ASTM D3648-2004, Standard Practices for the Measurement of Radioactivity.
Toxicity: Bombardier SMP 800-C (2000), Toxic Gas Generation Test.

FLAMMABILITY - Does not burn.

ASTM E162-02, Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source.
ASTM D635-03, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.



Visit us on the web: <https://illuminateproducts.com>
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*Meets or exceeds listed IBC / IFC / NFPA code performance standards for Photoluminescent Egress Markings