

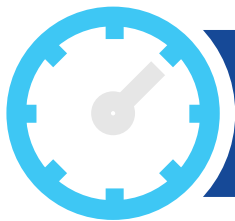


What is Underwriters Laboratories?

Underwriters Laboratories (UL) is an independent, not-for-profit corporation, which focuses on development of safety standards and testing of products to those standards. UL has particular expertise in electrical safety.

What are common end-use products that may require UL listed powder coatings?

- Circuit breaker boxes
- Metal cases for consumer electronics
- Metal enclosures that house motors or generators



PPG powder coatings **meet UL 1332** organic coatings for steel enclosures for outdoor use electrical equipment

What corrosion tests are involved in UL 1332 recognition?

- 600 hours of “standard” (ASTM B117) 95F (35C) 5% neutral salt fog spray resistance
- 1,200 hours of 95F (35C) 1% carbon dioxide/1% sulfur dioxide/98% moist air (CO₂/SO₂) “acid rain” resistance



The **UL 1332** recognition does not acknowledge cyclic corrosion testing

What is an all-color recognition?

Given the significant time and expense involved in qualifying a product to UL1332 requirements, Underwriters Laboratories established a “product line” evaluation process that permits a family of similarly formulated products to receive recognition as a group. The products must utilize the same “organic” components (resins, curing agents, additives), as determined by Infrared (IR) spectroscopy. However, metallics and clear coats must be tested independently.

Which PPG products are recognized for UL 1332 compliant components?

PPG has all-color approval for:

- PCF epoxy-polyester hybrid
- PCT polyester-TGIC
- PCU urethane polyester

How can PPG customers verify UL 1332 all-color recognition?

Underwriters Laboratories’ website displays basic information about recognitions, by company to whom the recognition was granted. PPG’s UL file number is MH6892 for Greensboro and Strongsville, MH17729 for Gainesville and MH26707 for Brazil. Click on the [link](#) to PPG Industries’ UL page for most industrial coatings.

PPG also lists the UL approval on the individual product data sheet.

How long does UL 1332 recognition take?

- At least 1,200 hours for the longest test
- In practice, 10-12 weeks is a more typical turn-around time for a project, allowing for purchase order, material submission and report-writing activities

Statements and methods described herein are based upon the best information and practices known to PPG Industries, Inc. (“PPG”). Any statements or methods mentioned herein are general suggestions only and are not to be construed as representations or warranties as to safety, performance, or results. Since the suitability and performance of the product is highly dependent on the product user’s processes, operations, and numerous other user-determined conditions, the user is solely responsible for and assumes all responsibility, risk and liability arising from, the determination of whether the product is suitable for the user’s purposes, including without limitation substrate, applications process, pasteurization and / or processing, and end use. No testing, suggestions or data offered by PPG to the user shall relieve the user of this responsibility. PPG does not warrant freedom from patent infringement in the use of any formula or process set forth herein. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin. Contact your PPG representative for the most up to date information.

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