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Traditionally MacLean Power Systems (MPS) line of Fiberglass Brackets used a coating of epoxy-based paint as an outer UV protective system. In December 2021 to promote additional operational, quality, and safety improvements as well as to remove all hazardous processes and substances for health and environmental requirements, MPS has transitioned the paint coating to a veiled UV system. Following are frequently asked questions regarding this transition.

Q1: Why do Fiberglass Brackets need a UV protective coating?

A1: The resins in the fiberglass matrix overtime, can react with the UV spectrum causing erosion of the resin. To prolong product life before fiber exposure, various inhibitors are used with in the fiberglass matrix as well as coatings such as veil or paint.

Q2: Why is MPS changing the system used on Fiberglass Bracket UV coating?

A2: Through December 2021 MPS used a UV resistant epoxy paint formulation as a primary means of UV protection on it's Fiberglass Brackets. Though a proven and effective system, the application of the paint introduces safety and environmental concerns due to solvents used in the production process. In order to eliminate potential hazards MPS decided to switch to a veil system as also used on MPS Fiberglass Guy Strain Insulators and Crossarms. This proven system is applied in line with the production of the fiberglass profile and comes with added advantages over paint.

UVMAXX™ UV protection system Fiberglass Brackets will gain additional improvements over the previous painted coating.

- UV system with 80+ year performance
- UV Protective top layer integrated into structure of composite eliminating concerns of protective layer chipping or scratching off
- Doubles thickness of top layer for improved durability
- Denser fabric for reduced light transference and longevity
- 10,000 hours of UV exposure testing per ASTM G154
- Improved tracking and erosion performance tested per ASTM D2303
- Improved resiliency to fire tested per UL94 and ASTM D635

Q3: What is veil?

A3: Veil is a non-ultraviolet reactive polyester fabric used for UV protection. It is pultruded within the fiberglass and resin matrix as an outer layer during production and acts as a shield to prevent UV degradation on the fiberglass core.

Q4: Does this change the physical performance characteristics of Fiberglass Brackets?

A4: All mechanical performance values with veil and painted materials remain the same. UV and electrical tracking performance have been enhanced with the veil system and test reports are available upon request. Users will notice a color change between painted and veiled material, but both are grey in color.

Q5: What products are affected by this change?

A5: This change affects all painted MacLean Power Systems Fiberglass Brackets.

Q6: Are there any catalog number changes?

A6: There are no changes to the existing catalog numbering system and all active catalog numbers will remain the same. Refer to the MacLean Power Systems Fiberglass Catalog Numbering System Matrix for further details and to configure catalog numbers.

Q7: When is the change occurring?

A7: Painted products will phase out in November and December of 2021 with full veil implementation by January 2022. During the veil implementation period there may be an overlap of both painted and veil coated products before the painted products are completely phased out.

Q8: Who to contact if there are additional questions?

A8: Refer to your MacLean Power Systems representative if additional assistance is needed or contact MPS directly at 855-MPS-SHIP or at macleanpower.com.

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