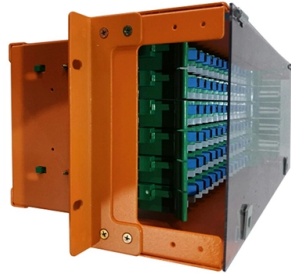


How to adjust the color of a level 3 electrical distribution box



AI Overview

The color of a distribution box should be adjusted using proper electrostatic spraying techniques, ensuring uniform coating, strong adhesion, and compliance with quality standards.

Surface Preparation Before applying a new color, the distribution box surface must be clean, flat, and free of dust, rust, pits, scratches, or old paint residues. Any imperfections can affect adhesion and the final appearance of the coating. Components such as doors, panels, and other metal parts should also be cleaned and prepared similarly to ensure a consistent finish across the entire box.

Coating Method The recommended method for adjusting the color is electrostatic spraying, which provides a uniform and durable finish. This process ensures that the coating adheres firmly to the metal surface and prevents issues such as peeling, missing spots, or uneven color. The coating should be applied evenly, with no significant color differences or reflections visible from a 1-meter distance.

Quality Checks After spraying, inspect the box for:

- Uniform color and smooth surface without pits or scratches.
- No peeling, rust, or missing plating on coated parts.
- Proper adhesion to ensure the coating will withstand environmental and operational conditions.

Ensure that nameplates, circuit diagrams, and other attached components are not damaged and remain clearly visible.

Safety and Compliance While adjusting the color, it is important to avoid altering internal wiring or protective earth connections, as these are critical for electrical safety. The external color change should not interfere with the box's grounding, insulation, or accessibility for maintenance.

Summary To adjust the color of a level 3 electrical distribution box:

- Clean and prepare all surfaces thoroughly.
- Use electrostatic spraying for uniform and durable coating.
- Inspect for smoothness, adhesion, and color consistency.
- Ensure all safety and labeling requirements are met.

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