



### Back ionization

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Back ionization refers to the mutual repulsion between charged paint particles in an area of excessive film thickness. Back ionization causes hollows, resulting in a substantially uneven surface.

#### **Q1:**

**Is the spray gun too close to the substrate?**

#### **A1:**

Adjust to an appropriate spray gun distance.

Common standard values lie between 150 and 200 mm.

#### **Q2:**

**Is the substrate adequately grounded?**

#### **A2:**

Provide adequate grounding for the paint booth, coating machine, and primary and secondary hangers.

#### **Q3:**

**Did the coat exceed the critical film thickness?**

#### **A3:**

Perform control to adhere to the specified film thickness.

#### **Q4:**

**Did you recoat a previously electrostatically charged substrate?**

#### **A4:**

For recoating, it is necessary to take the following antistatic measures.

- ① Provide adequate grounding for static elimination.
- ② Install a static eliminator.
- ③ Allow a sufficient period of time for self-discharge.
- ④ Wipe the substrate lightly with a cloth dampened with alcohol.