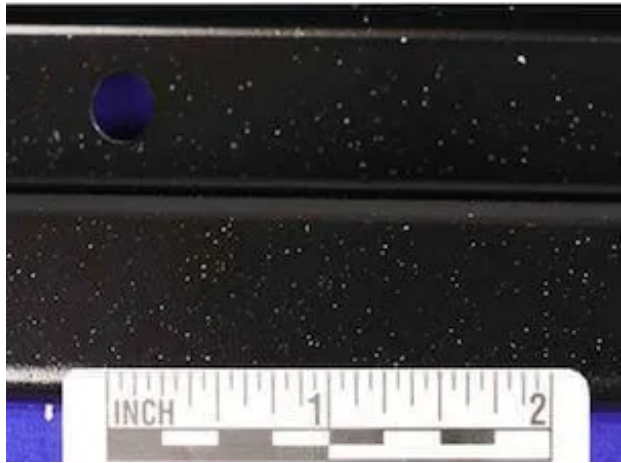


White Specks on E-Coated Steel

Learn how our Material Support & Solutions team solved this customer material issue.



THE PROBLEM

After electro coating a radiator support assembly, a customer found white specks in the black e-coating. The customer asked for help in determining if the specks would affect corrosion protection, and how they could be prevented.



THE ANALYSIS

The Worthington Material's lab examined the e-coat using a scanning electron microscope. They found small holes in the e-coat and determined that they were caused by gas bubbles. The bubbles formed because the voltage for the e-coating process was set too high.



THE SOLUTION

The customer had been e-coating their aluminum and steel parts together, even though aluminum requires a higher voltage setting. Worthington recommended that they e-coat these two materials separately, so the steel could be set to the proper lower voltage. The white specs disappeared.

— THE ACTION

When you need to identify the root cause of defects in coated steel parts, contact the Materials Support & Solution team at Worthington.