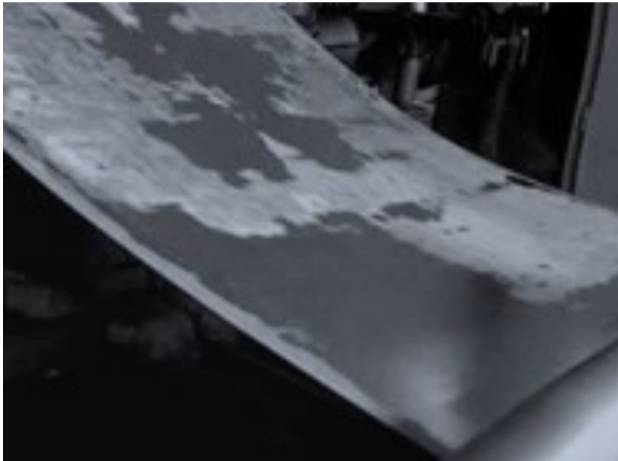


Acrylic Coating

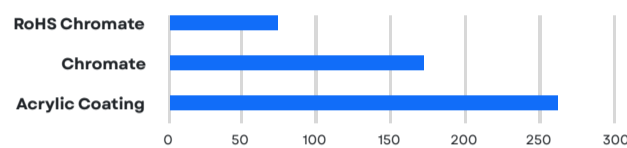
Learn how our Material Support & Solutions team solved this customer material issue.



THE PROBLEM

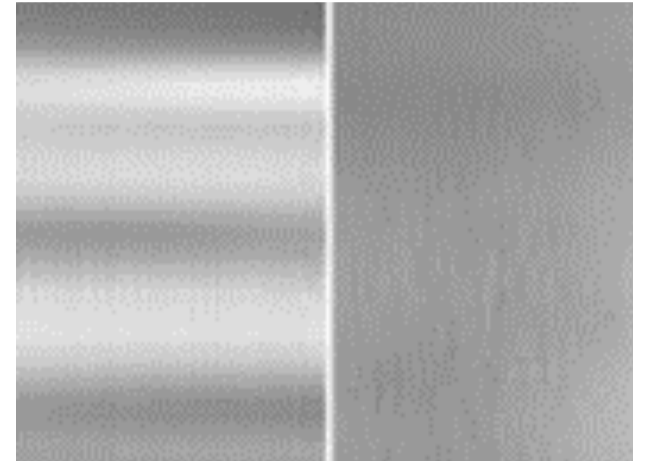
Our galvanized steel customers wanted a protective coating that would (1) prevent white rust from forming during non-environmentally controlled transport and storage (2) make the galvanized steel's shiny appearance last longer, and (3) increase tool life in their roll forming and corrugating processes.

AVERAGE DAYS TO ONSET OF WHITE RUST
ON FLAT SAMPLES IN SALT SPRAY TEST



THE ANALYSIS

Our metallurgists compared an acrylic coating with other chromate coatings to find the best solution to meet these objectives. An outdoor exposure station was installed to monitor how representative samples weathered over time. In addition, drag tests compared lubricity for tooling protection.



THE SOLUTION

The acrylic coating lasted the longest -over 250 days -without showing signs of white rust accumulation. The very low levels of white rust present allowed the acrylic to retain its glossy finish. Additionally, acrylic provides a thin, strongly adherent, and flexible surface that is an effective solid lubricant for roll-forming and corrugating.

— THE ACTION

When you need a superior coating for your flat or roll formed parts to protect zinc through manufacturing, consider acrylic and contact the Material Support & Solution team at Worthington to learn more.