

Corrosil® Plus 315L

High performance – directed friction



General Metal Finishing

Corrosion protection coatings

atotech.com



The transparent sealer for highest efficiency

μ_{tot}
 0.15 ± 0.03

Coefficient of friction (ISO 16047)

Excellent on silver, outstanding on black

Corrosil® Plus 315L is a water based organic-mineral sealer with adjusted friction control for zinc and zinc alloy surfaces. Possessing a very glossy appearance it suits for black and silver passivated parts, and is appropriate for barrel or dip spin applications.

On zinc nickel plated steel Corrosil® Plus 315L provides a corrosion protection of more than 1,000 hours against red corrosion. In terms of coefficient of friction and corrosion performance Corrosil® Plus 315L meets the latest specifications of automotive manufacturers like Volvo, PSA, Renault, Nissan and Ford.

Features & benefits

- Glossy appearance for silver and black
- Advanced last drop formation
- CoF: 0.12 – 0.18 for Volvo, PSA, Renault, Nissan and Ford
- Outstanding corrosion performance in cyclic corrosion tests (e.g. ACT II)
- Excellent multi-tightening behavior

High corrosion resistant glossy sealer for automotive fasteners



Figure 1: Surface appearance of Zinni® AL 450 + Tridur® ZnNi H1 + Corrosil® Plus 315L, after 6 cycles of corrosion test acc. to Ford L467 / Volvo ACT-II VCS 1027

Meeting the most demanding corrosion protection requirements

OEMs offer most comprehensive warranties for their products. Therefore, they set substantial performance requirements on fasteners. As a consequence, corrosion protection demands have significantly increased during the past years. As crucial for the development of corrosion protection technologies, the ideal balance between coating thickness and the right level of corrosion protection has been achieved with Corrosil® Plus 315L. Not only does the sealer provide an outstanding corrosion protection of more than 1,000 h (NSST) against red corrosion but it also delivers an excellent performance after 6 cycles of corrosion test (Figure 1). Therefore, Corrosil® Plus 315L fulfills the cyclic corrosion demand of numerous OEMs.

Neutral salt spray test acc. to PSA D17 1058



Figure 2 + 3: Surface appearance of Zinni® AL 450 + Unifix® Ni 3-30L + Corrosil® Plus 315L

Figure 4 + 5: Surface appearance of Zinni® AL 450 + EcoTri® NC + Corrosil® Plus 315L

CoF (ISO 16047) – Corrosil® Plus 315L on different passivates

