

RUSPERT[®] ZERO·STAIN

REPLACEMENT OF STAINLESS STEEL

Everlasting Chrome Free
Never-ending Ruspert

We will always make the proposal with
consideration to our global environment.

Environmental-friendly



JQA-QMA13679
JQA-EM6160



 Nihon Ruspert Co., Ltd.



RUSPERT® ZERO·STAIN

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Zero stain is a completely chrome-free surface treatment.
Products treated by it can be the replacement of stainless steel.
This is an environmental-friendly technology which can greatly
improve the anti-corrosion function of zinc-nickel alloy plating.



Features

01 Environmental-friendly

Free from the hazardous substance such as hexavalent chromium, trivalent chromium, lead, cadmium, mercury.

04 Go- No Go fixed gauges

Because of the baking film is coated on the even zinc - nickel alloy plating, the bolts and nuts can be fastened smoothly without overtapping.

02 Superior anti-corrosion

Superior anti-corrosion function can be reached thanks to the tenacious coating film. With the thin-double-layer coating, stable shielding effect and high rust prevention performance are realized.

05 Lubricity

Lubricity can be adjusted with topcoat which will well improve the operation function for drilling and fastening work.

03 Appearance

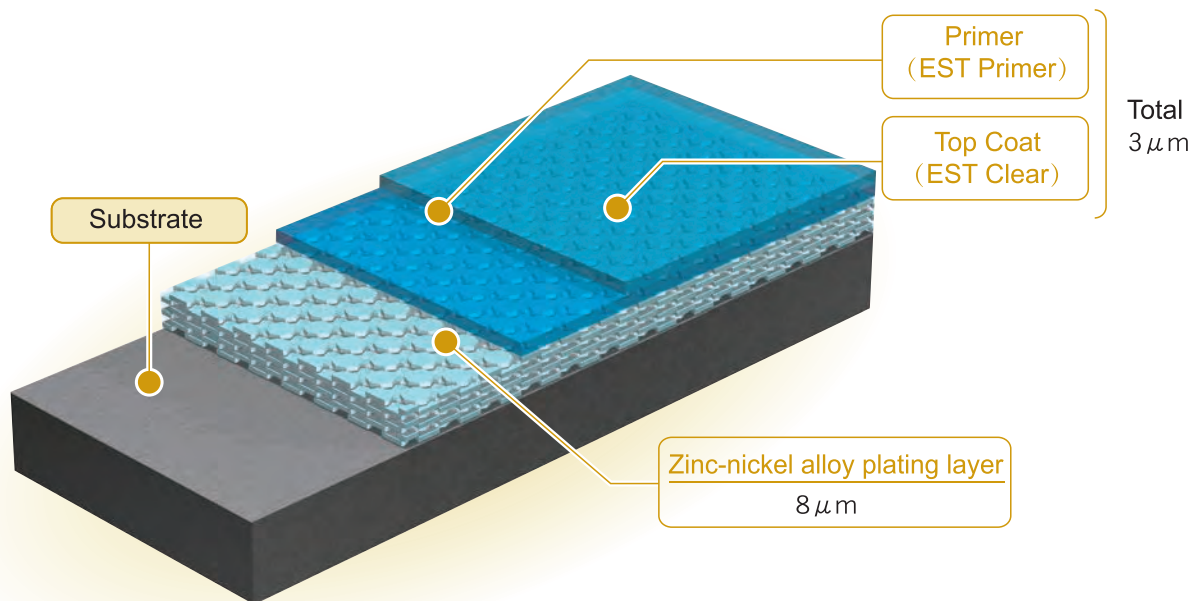
Stainless color can be achieved without damaging the appearance of zinc - nickel alloy plating film .



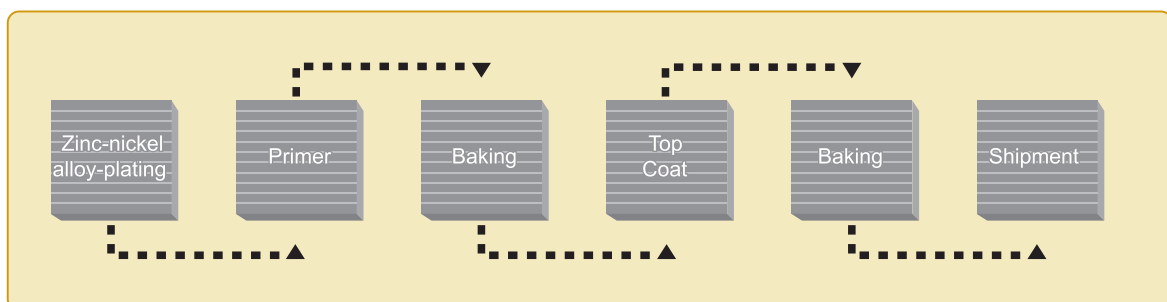


Coating film structure

The first layer acts a high self-sacrificial galvanic effect of Zn-Ni alloy plating, the second layer of primer make an excellent adhesion performance, and the third layer prevents intrusion of corrosive factors from outside .



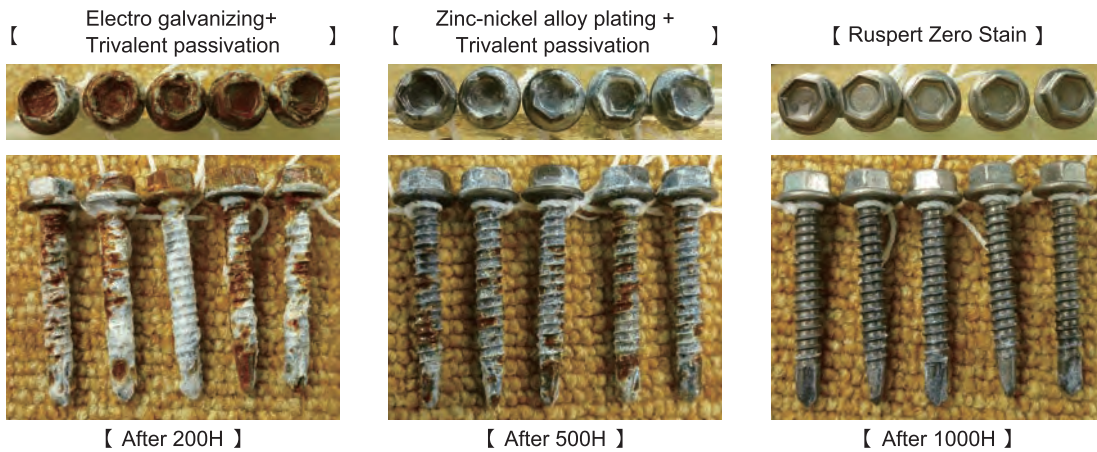
Standard treatment process(Dip-spin method)



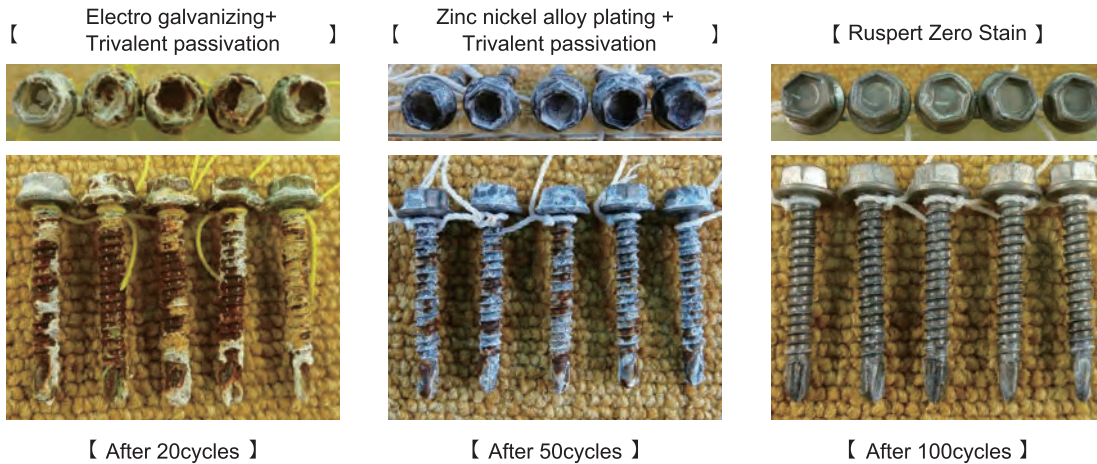
Coating Performance

- Basic performance: Salt spray test (JIS Z 2371) —2000 Hours
Combined cycle test (JASO M609-91) —200 Cycles
- Test sample : M5×35 Self drilling screw
- Test method : Fasten the bolt on the steel plate (thickness:2.3mm) with electrically impact driver, doing the tests below after extracting the bolts.

Salt spray test (Based on JIS Z 2371)



Combined cycle test (Based on JASO M609-91)



Remarks: The experimental data above are the results of tests but the performance may have deviation when used in different conditions.



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