



SS100 Chrome-Free Color Stainless+ Steel Fastener Nano Coating

Stainless steel surface treatment has long been a challenge, especially in enhancing corrosion resistance. TrueEco has developed an exclusive nano-ceramic resin that forms a strong protective layer on metals, glass, ceramics, and composites, offering superior weather resistance.

Our nano-coating bonds directly with stainless steel after degreasing and performs well even on mirror-polished surfaces, significantly boosting corrosion resistance and reducing galvanic corrosion between metals.

The coating's high hardness also reduces wear and enhances acid resistance, improving overall durability and making stainless steel a viable alternative to titanium alloys in certain applications.

Product Features:

- * Direct coating without the need for surface roughening
- * After degreasing, dip spin coating and 150~210°C curing for 15~30min.
- * Suitable for mirror-polished stainless steel
- * Strong rust resistance and excellent galvanic corrosion protection
- * Superior acid resistance
- * Customizable colors
- * Cost-effective compared to other treatment methods



Custom-colored stainless steel screws are rare and highly sought after. Many businesses want to color their screws for aesthetics or differentiation, but coating stainless steel has been challenging. After years of research, TrueEco has overcome this barrier, creating new opportunities for the industry.

TrueEco Colored Stainless Surface Treatment vs. Other Stainless Surface Treatments

To improve stainless steel's corrosion resistance, traditional methods often involve sandblasting or pickling to roughen the surface for better coating adhesion. However, these treatments damage the steel's oxide layer, weakening its rust resistance and ultimately proving ineffective.

TrueEco's colored, high-corrosion-resistant stainless steel screws employ a new technology: after cleaning and degreasing, a

nano-coating is directly applied, preserving the oxide layer while adding an extra protective coating for superior rust resistance.

Surface treatment of stainless steel has always been a challenge due to its material properties, which cause coatings to peel and increase processing costs. TrueEco offers a solution that combines aesthetic appeal with exceptional performance.



Vacuum Coating	Black Dyeing	Powder Coating	Glossy Chrome	TrueEco Nano Coating
Poor rust resistance, poor acid resistance; not suitable for small parts	Poor rust resistance, poor acid resistance; environmentally unfriendly	Requires roughening pre-treatment; poor adhesion	Environmentally unfriendly	Improved rust resistance; enhanced acid resistance
Cost High	Cost Extremely High	Cost High	Cost High	Cost Moderate/Low

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