Permanent Metal coating for Stainless Steel & Aluminum

Offer Superior Industrial Surface Protection

Nanokote’s Permanent Room Temperature Cure Metal Coatings can enhance stainless steel and light metals by enabling permanent functionality such as self-cleaning and exceptional corrosion protection.

These properties benefit manufacturers and end users alike. Permanent anti-corrosion coatings provide extreme chemical and abrasion resistance to extend the life of metals in harsh environments.

Traditionally anti-corrosion coatings use dangerous heavy metals and require three separate coats including a primer, an epoxy coating and then a top coat polyurethane. Overall this can amount to well in excess of 4 mils (100 micron) in coating thickness or up to 350 lbs in additional weight on the trailer. This weight is significant when you think at the extra material you would have able to transport in every trip.

This process not only impacts the visual nature of the metal surface but it also becomes a costly exercise from a coating consumption point of view and also a labour perspective. By comparison, Nanokote is a one coat process producing a coating thickness of only a few microns that does not require priming.

“Protect your investment with Stainless Steel and Aluminum Protective Coatings!”

These are only a handful of the benefits of Nanokote Metal Finishing:

- Non stick surface resulting in a self cleaning surface.
- Extreme resistance to acids, bases and solvents.
- Permanent anti-corrosion properties
- Coatings provide extreme abrasion resistance
- Extends the life of metals in harsh environments
- Anti-fingerprint and anti-scratch metal finishing (pencil hardness of >9H)
- Remains stable under very high temperatures (in excess of 518°F (270°C)). Special version up to {1292°F (700°C)}
- Alternative to traditional protection processes
- Isocyanate free
With just soap and water, your wheels will shine!

PrimoShield is not another industrial clearcoat!

With the help of our nanotechnology background it modifies the surface properties of you wheels eliminating the need to use an acid cleaner.

Regular coatings for trailers can weigh up to 350 lbs, compare to 10 lbs for the Primoshield.

Nanokote metal finishing passes all tests listed above. Our coating shows no signs of blistering, cracking, flaking or softening.

Coating thickness: 12 micron (DIN EN 13523-1)
Color: Transparent, Translucent or Pigmented
Gloss rating: DIN EN 13523-2, EN ISO 2813. High Gloss
Surface energy: Goniometer 18-20 mN/m
Contact angle: Goniometer 103°
Adhesion (Cross cut/ tape test): DIN EN 13523-6, DIN EN ISO 2409 GT/TT = 0
Workability after cupping test: DIN EN ISO 1520, Pass. No cracks
Workability after T-bend test: DIN EN 13523-7, Pass. No cracks
MEK test > 100 double strokes: DIN EN 13523-11, Pass
(4 x 5hr boiling water, 18hr drying at RT): GT/TT = 0. ET 5mm, GT 0, ET 8mm, GT 0
VOC Level: 115g/liter

About Defense Coatings Solutions

Defense Coatings Solutions was founded in 2014. Strong of 24 years experience with different coatings manufactures and associate products to coating, we are now the Exclusive Canadian distributor for Nanokote North America.

NANOKOTE is an innovative nanomaterial-based surface technology developer and manufacturer founded in 2005. They transform the physical properties of concrete, metal, glass and sanitary ware surfaces by applying specialized coatings that are designed for very specific purposes.

Quality testings that have been conducted with PrimoShield:
- Acidic Humidity (30 Cycles, 0.2 SO2)
- Constant Humidity (1,000 h)
- Salt-Spray (>4,000 h)
- Boiling Test (2 h Distilled Water)
- UV-Resistance (QUV 5000 h)
- Heat Transfer (DIN 3168)

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