

ADVANTAGE

METAL TREATMENT



Promotes long-lasting, self cleaning surface



Invisible treatment leaves surface appearance and function unaltered



UV resistant formula



Water, dirt, and oil repellent



pH & chemical resistant



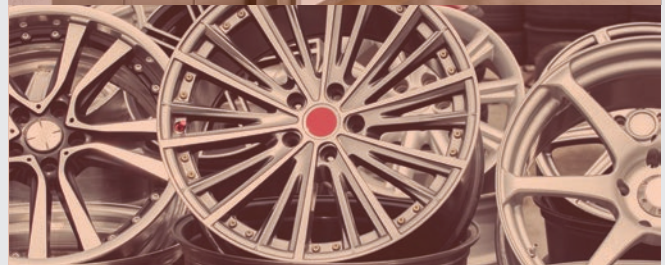
Application engineered



Temperature resistant up to 482°F

INNOVATIVE ASSET PROTECTION

e9 Treatments offers a history of success treating metal surfaces to repel organic and inorganic materials. Surfaces treated with e9 Advantage Metal Treatment are oleophobic and hydrophobic, abrasion and chemically resistant, and easy to clean. Our staff of application engineers consult with customers to offer streamlined implementation plans. Let our team of experts help you with your specific treatment needs.



- ✓ ALUMINUM
- ✓ STAINLESS STEEL
- ✓ SILVER
- ✓ TITANIUM
- ✓ BRONZE
- ✓ BRASS

ADVANTAGE

TECHNOLOGY

e9 Advantage Metal Treatment modifies the molecular structure of the surface. The treatment is colorless and produces no negative changes to the surface. Application of the treatment reduces the surface energy of the metal surface, lowering its wettability (a material's ability to maintain contact with—or adhere to—a surface) causing it to become oleophobic and hydrophobic.

A material's wettability can be determined in a lab by measuring the angle of contact of a liquid on a substrate (solid). The more a droplet spreads on the substrate, the lower the contact angle. In general, contact angles $>90^\circ$ indicate a material is hydrophobic and $>50^\circ$ oleophobic.



PACKAGING

e9 Advantage Metal Treatment is available in single item and bulk quantities.

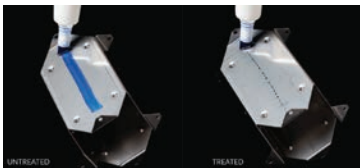


Size	Purchase Quantities
4oz	Two 4oz bottles
8oz	Two 8oz bottle

TREATMENT APPLICATION INSTRUCTIONS

<p>1 CLEAN SURFACE Ensure surface is free from any oily residue and is clean and dry. Isopropyl alcohol is highly recommended to remove any undesired residue.</p>	<p>2 APPLY TREATMENT Spray 4-6 pumps of e9 Advantage Metal Treatment onto the clean metal surface for each sqft. of surface area to treat.</p>	<p>3 POLISH Use a clean, lint-free cloth and apply the treatment in an overlapping circular motion to ensure the whole surface is treated.</p>
<p>4 CURE TIME The treatment is dry to touch after 15 minutes. For best results let the application cure for 24 hours.</p>	<p>5 TREATMENT TEST After 24 hours, you can use a Dyne pen to check that the treatment was successful.</p>	

TREATMENT TESTING



The Dyne pen test is considered the industry standard for assessing material wettability. To demonstrate the effectiveness of an e9 Advantage treated surface, use a Dyne pen to mark the surface. On a properly treated surface, the liquid from the Dyne pen will begin to bead within seconds and start to disappear.

METAL TREATMENT

PRODUCT DESCRIPTION

e9 Advantage Metal Treatment is a nanotechnology-based, ultra-thin, multi-functional surface treatment, that alters the molecular structure of metal to increase its ability to repel organic and inorganic contaminants. The treatment repels water and oil and inhibits the adhesion of foreign materials to the metal surface, creating an easy clean or self-cleaning surface. Dirt and dust wash off easily when rinsed with water.

SPECIFICATIONS

Material Appearance	Clear liquid
Solvents	Ethanol (>99%), 1% by volume Hydrochloric Acid (HCL)(37%)
Flashpoint	16°C (60°F)
Storage Temperature	Between 4°C (39°F) and 24°C (75 F)
Density/Specific Gravity	0.789 g/cm ³
Application Temperature	1°C (34°F) to 38°C (100°F)
Storage	Product may be stored in its original sealed container for 24 months in dry and cool conditions.

RECOMMENDED SURFACES

Stainless Steel	Titanium
Aluminum	Silver
Brass	Nickel
Bronze	Zinc

METAL TYPES & SURFACE APPLICATIONS ARE LIMITED TO THOSE LISTED

The information and recommendations relating to the application and end-use of these products are given in good faith based on current knowledge and experience with the products applied under normal conditions. In practice, differences in materials, substrates and actual site conditions are such that no warranty in respect to the merchantability or fitness of these products for a particular purpose, nor any liability arising out of any legal relationship whatsoever can be inferred from this information.

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