

# ADVANTAGE

## GLASS 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 glass surfaces to repel organic and inorganic materials. Surfaces treated with e9 Advantage Glass 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.



### VERSATILE APPLICATIONS



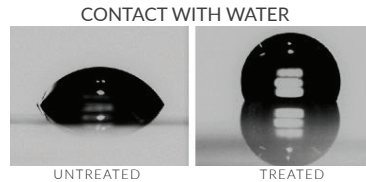
- ✓ SOLAR PANELS
- ✓ BUILDING FACADES
- ✓ WINDOWS
- ✓ VEHICLE GLASS
- ✓ SKY LIGHTS
- ✓ SHOWERS

# ADVANTAGE

## TECHNOLOGY

e9 Advantage Glass 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 glass, lowering its wettability (a material's ability to maintain contact—or adhere—with the surface) causing it to become oleophobic and hydrophobic.

The ability of materials to adhere to a surface 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. In lab tests, an untreated glass surface has a contact angle of  $60.8^\circ$ , while the glass treated with e9 Advantage Glass Treatment (at right) has a contact angle of  $114.3^\circ$ , indicating it is hydrophobic and oleophobic.








## PACKAGING

e9 Advantage Glass Treatment is available in a variety of sizes and kit options to offer customers flexibility in selecting the size that best suits project needs. Field treatment kits are designed for parts that require treatment in field service applications. Field Kits include alcohol wipes and a microfiber cloth. These easy to carry kits are a perfect starter set.

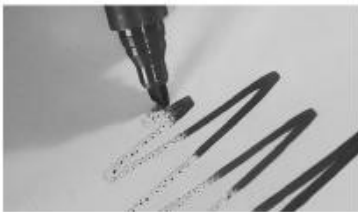


Size	Accessories Included
L KIT	(2) 4oz. bottles, alcohol wipes, and microfiber cloth
XL KIT	(2) 8oz. bottles, alcohol wipes, and microfiber cloth
16oz.	6 pack of 16 oz. individual bottles

## TREATMENT APPLICATION INSTRUCTIONS

<p><b>1 CLEAN SURFACE</b> 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><b>2 APPLY TREATMENT</b> Spray 4-6 pumps of e9 Advantage Glass Treatment onto the clean glass surface for each sqft. of surface area to treat.</p> 	<p><b>3 POLISH</b> Use a clean, lint-free cloth and apply the treatment in an overlapping circular motion to ensure the whole surface is treated.</p> 
<p><b>4 CURE TIME</b> The treatment is dry to touch after 15 minutes. For best results let the application cure for 24 hours.</p> 	<p><b>5 TREATMENT TEST</b> 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 the ability of materials to bond to a treated surface. 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.

# GLASS TREATMENT

## PRODUCT DESCRIPTION

e9 Advantage Glass Treatment is a nanotechnology-based, ultra-thin, multi-functional surface treatment, that alters the molecular structure of glass 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 glass surface, creating an easy clean or self-cleaning surface. Dirt and dust wash off easily in the rain or when rinsed with water. e9 Advantage Glass treatment also protects the surface from the formation of stubborn calcium and salt stains.

## 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 <sup>3</sup>
Application Temperature	1°C (34°F) to 38°C (100°F)
Storage	Product may be stored in the original sealed container for 24 months in dry and cool conditions.

## RECOMMENDED SURFACES

Solar Panels	Transparent walls
Sky lights	Vehicle glass
Shower cabinets	Building facades
Architectural glass	LCD displays

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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