



Lens Coating Chemical Resistance



Nothing Protects Like Uvex®

Uvex has developed proprietary coatings to meet the demands of even the most challenging work environments. Uvextreme® anti-fog coating (XTR) offers superior performance under the most extreme conditions and will not wear off after repeated cleanings. It is permanently bonded to the lens which helps it retain its anti-scratch, anti-static and UV protection properties. Ultra-dura® hard coat (UD), one of the toughest siloxane-based coatings in the world, is also permanently bonded to the lens and offers superior scratch and chemical resistance. In addition, Uvex Dura-streme™ technology combines the benefits of these industry-leading anti-fog and hard coats onto one lens. While the advanced anti-fog properties of Uvextreme help keep the interior of the lens clear from fogging, the rugged properties of Ultra-dura hard coat protect the exterior of the lens from scuffs and scratches, adding up to 3x* more life to lenses.

The Chemical Resistance Chart below will help to determine the preferred coating for environments where workers are subject to chemical exposure.

Chemical	UD	XTR	Dura-streme		Chemical	UD	XTR	Dura-streme	
			UD External	XTR Internal				UD External	XTR Internal
Acetone	Y	N	Y	N	Gasoline (super)	Y	N	Y	N
Ammonia 10%	Y	Y	Y	Y	Hydrofluoric Acid	•	Y	•	Y
Benzene	Y	N	Y	N	Hydrochloric Acid 20%	Y	Y	Y	Y
Butanol	Y	Y	Y	Y	Isopropyl Alcohol	Y	•	Y	•
Butyl Acetate	Y	N	Y	N	Methanol	Y	Y	Y	Y
Carbon Tetrachloride	Y	Y	Y	Y	Methylene Chloride	Y	N	Y	N
Cyclohexanol	Y	N	Y	N	Potassium Carbonate 30%	Y	Y	Y	Y
Diethylether	Y	Y	Y	Y	Sodium Carbonate 30%	Y	Y	Y	Y
Ethanol	Y	Y	Y	Y	Sulfuric Acid 50%	Y	Y	Y	Y
Ethylene Glycol	Y	Y	Y	Y	Toluene	Y	N	Y	N
Formic Acid 30%	Y	Y	Y	Y	Trichloroethylene	Y	N	Y	N
Gasoline (normal)	Y	Y	Y	Y	Xylene	Y	N	Y	N

KEY
Y = Resistant
• = Limited resistance
N = Not resistant

**Comparative lens life test performed using a Bayer Abrasion Test method and may vary between environment and application.*



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