

PRODUCT TYPE

HTAF-601 is a Water Based Anti-Fog Coating formulated to provide a permanent, hydrophilic surface that resists fog and condensation on a variety of substrates.

PROPERTIES

- Moisture Absorbing properties
- Adhesion to a variety of plastics types including polycarbonate and glass
- Rapid thermal curing

SAFETY AND EXPOSURE

All users must read and understand the Safety Data Sheet prior to using this product.



HTAF-601 Anti-Fog Coating

LIQUID PROPERTIES at 25°C

PROPERTY	RANGE
Viscosity	40 – 70 centipoise (cP)
Specific Gravity	1.0 – 1.05
Solids, % by weight	15 – 20
Compatible Solvents	Water
Maximum Dilution	70% Anti-Fog Coating: 30% Solvent

CURED COATING CHARACTERISTICS

Polycarbonate substrate, 8.0 microns

PROPERTY	RANGE
Light Transmittance	≥ 88% (polycarbonate); ≥ 98% (glass)
Haze	< 1.0%
Adhesion	100% (5B)
Thickness, microns	6 – 14 (8)
Chemical Resistance Pass	Alcohols (ethanol/isopropanol), typical household cleaners, aliphatic (diesel/gasoline/heptane/cyclohexane), Dilute alkali and acids
Fail	Esters (ethyl acetate), Ketones (acetone, 2-heptanone;2-butanone), dichloromethane, Concentrated acids and alkali

WARRANTY LIMITATIONS

The physical and performance properties cited herein represent typical values for HTAF-601 Anti-Fog Coating, and are not meant as exact specifications. Customers must conduct their own validation testing to determine the appropriate use of this product for any purpose. This information is not to be considered a warranty or license to infringe upon any patented process or product; no liability for infringement arising out of such a use is assumed.

DELIVERY OPTIONS

The HTAF-601 Anti-Fog Coating solution is available for shipment within two weeks of order confirmation, and is available in quart, gallon, fivegallon pail, and 55-gallon drum containers. Contact Exxene to select the best payment option and the optimum shipping method according to your preference and region. All charges, duties, and fees associated with the shipment and its contents are the responsibility of the customer.

APPLICATION PARAMETERS

PROPERTY	RANGE
Application Methods	
Dip	1 – 3.0 mm /second withdrawal rate
Spray	Not suitable for spraying
Flow Coat	As appropriate to flow system
Suggest Primers	SP-12 or SP-26 Primer on glass substrates
Environment	
Temperature / Humidity	16 – 30°C
Dew point	20 – 65 % RH
	Dew point must be at least 5° lower than room temperature.
Air quality	Laminar, top-down flow < 5 cfm
	Particle count as appropriate (≤ Class 10,000)
Coating Temperature	Within F° of Ambient temperature
	Within 5° of Ambient temperature
	Polyethylene or polypropylene; nominal media rated at 0.5 to 1.0
Coating Filtration	microns as a pre-filter; absolute media rated at 5.0 to 10.0
	microns. Filter all coating before use.
Cure Conditions	20 – 40 minutes at 60°C
	10 – 20 minutes at 110 – 120 °C

EQUIPMENT PREPARATION

Compatible Materials: All equipment surfaces must be constructed of stainless steel, polyethylene, polypropylene or similar, chemical resistance substances. Mild steel, brass, copper, and polyvinyl chloride (PVC) or plasticizer-containing materials cannot be allowed to contact the coating solution.

Cleaning: All coating equipment must be thoroughly cleaned with a compatible solvent to remove all traces of other coatings, solvents, or old batches of the same product. After all residues have been removed from the equipment, multiple rinses of water are used to prepare the system for the introduction of filtered HTAF-601 Anti-Fog Coating solution.

STORAGE HTAF-601 solution is stored at room temperature, or at refrigerated temperatures above 5 $^{\circ}$ C. Do not freeze. When stored in the original, sealed container, the solution should be used within ten months of the production date.

SUPPORT Contact Us via telephone at +1(361)991-8391, email Info@Exxene.com, or fax to +1(361)991-9057. We are located at 5939 Holly Road, Corpus Christi, TX 78414.