

## WARRANTY LIMITATIONS

The physical and performance properties cited herein represent typical values for HTAF-MODA 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-MODA Anti-Fog Coating solution is available in five-gallon 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.

# HTAF-MODA Anti-Fog Coating

## LIQUID PROPERTIES at 25°C

PROPERTY	RANGE
Viscosity	50 – 150 centipoise (cP)
Specific Gravity	1.0 – 1.01
Solids, % by weight	25 – 32
Compatible Solvents	Distilled Water
Maximum Dilution	65% Anti-Fog Coating: 35% Water

## CURED COATING CHARACTERISTICS

Polycarbonate substrate, 8.0 microns

PROPERTY	RANGE
Light Transmittance	≥ 88% (polycarbonate); ≥ 92% (glass)
Haze	< 1.0% (0.1%)
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

## APPLICATION PARAMETERS

PROPERTY	RANGE
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Application Methods	
Dip	1 – 3.0 mm /second withdrawal rate
Spray	<i>Not suitable for spraying</i>
Flow Coat	As appropriate to flow system
Suggested 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 5° of Ambient temperature
Coating Filtration	Polyethylene or polypropylene; nominal media rated at 0.5 to 1.0 microns as a pre-filter; absolute media rated at 5.0 to 10.0 microns. <i>Filter all coating before use.</i>
Cure Conditions	30 – 45 minutes at 60°C 20 – 30 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 Distilled or Deionized Water are used to prepare the system for the introduction of filtered HTAF-MODA Anti-Fog Coating solution.

**STORAGE** HTAF-MODA solution is stored at room temperature, or at refrigerated temperatures above 5 °C. Do not freeze. When stored in the original, sealed container, the solution should be used within one year of the production date.

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