

# Hydromer, Inc.

## Condensation Control Coatings...for Glass, Polycarbonates, Acrylics, Polyesters and PVCs.

### Anti-Fog Coatings



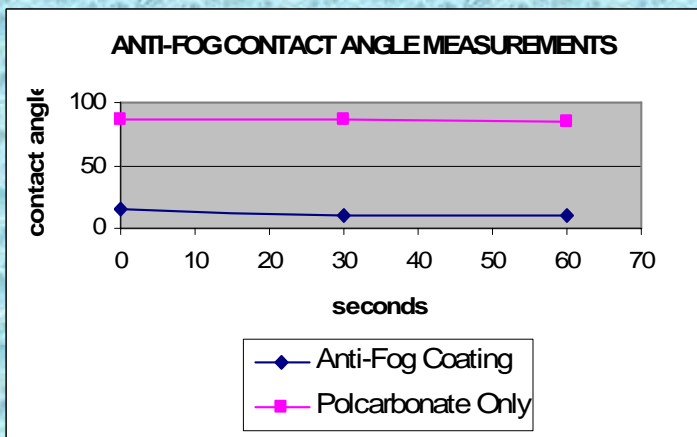
**Hydromer Anti-Fog Coatings** provide reliable condensation management within a broad range of temperatures and humidity to prevent fogging and misting.

### Anti-Frost Coatings



**Hydromer Anti-Frost Coatings** maintain optical clarity on glass surfaces under severe freezing conditions by providing advanced condensation control properties.

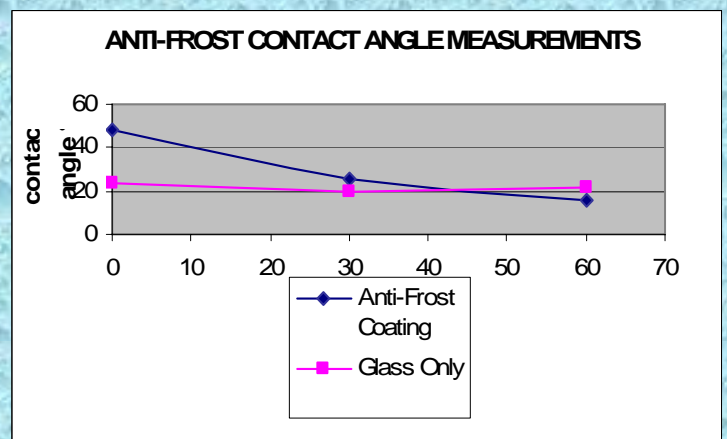
## How Do Hydromer's Advanced Condensation Control Coatings Work?



### **Water Droplet Coalescent**

When surface humidity falls below the air's dew point, excess moisture condenses on the surface as droplets, producing a mist or fog.

**Hydromer Anti-Fog Coatings** reduce the droplet's surface tension, as reflected in the above contact angle measurements, causing the water droplets to disperse into an invisible, continuous film.



### **Water Droplet Absorption**

When warm, humid air comes in contact with surfaces at below freezing temperatures, excess moisture rapidly crystallizes on the surfaces.

**Hydromer Anti-Frost Coatings** absorb the condensate into the coating's polymeric matrix before crystallization occurs, as reflected in the decreasing contact angle measurements reported above.

# Advanced Condensation Control Coatings

Coatings can be designed to provide optical clarity with either Anti-Fogging characteristics for high humid environments, or with Anti-Frost properties at freezing temperatures.

Coatings that are applied to metal or metallic thin films, are used to prevent the formation of condensate droplets, such as in the interior of electronic housings.

Coatings are either water based or solvent based, and can be applied to numerous substrates including:

- Glass
- Quartz
- Stainless Steel
- Aluminum
- Copper
- Gold Films
- Polycarbonates
- Acrylics
- Polyesters
- Vinyls
- Polystyrenes
- HDPE

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**Hydromer's family of *Advanced Condensation Control Coatings* include:**

- **Series 500 Coatings for Anti-Fog Properties in High Humidity Conditions.**
- **Series 600 Coatings for Low Temperature, Anti-Frost Requirements.**
- **Series 700 Coatings for Moisture Management and Drip Prevention.**
- **Series 800 Coatings for Sheeting and Condensate Pathways.**



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