



## Anti-Fog Coatings

**Visgard®** AF/Anti-Scratch

**Vistex®** Super Hydrophilic

### Anti-Fog Coatings - FAQ

**Q: How does FSI Coating Technologies (FSICT) anti-fog coating system work?**

**A:** FSICT coatings are designed to be hydrophilic. Moisture from the environment, or the user, is absorbed onto the surface of a coated part. The anti-fog coating allows for uniform distribution of moisture so that the user's field of vision does not become disturbed.

**Q: What is the difference between hydrophobic and hydrophilic coatings?**

**A:** Hydrophobic anti-fog coatings allow water droplets to bead up and run off the face of the object. Hydrophilic coatings allow for uniform absorption of water. Moisture sheets evenly which allows vision not to be obstructed.

**Q: What is the difference between a one-part and a two-part coating system?**

**A:** The one-part system only requires solvent addition, while the two-part system requires mixing of the two components and the addition of the recommended solvent system.

**Q: Does FSICT make an anti-fog coating solution that has anti-scratch properties?**

**A:** FSICT offers a line of coatings under the brand name Visgard which exceeds industry standards for fog resistance, while providing a mar resistant surface.

**Q: Can FSICT coatings pass anti-fog performance standards within the eyewear industry?**

**A:** Visgard (anti-fog/anti-scratch) coatings pass ASTM F659 and EN166-N for anti-fog performance.

**Q: Do your anti-fog products require a primer?**

**A:** The majority of FSICT's anti-fog products give good adhesion to most clear plastic substrates, especially polycarbonate. Primer is needed for adhesion to glass.

**Q: Can I have a liquid sample of your coating to apply on my product?**

**A:** Before we release product to your organization we suggest that you send parts for coating to FSICT. After receiving back the coated parts, if you then want a liquid sample we would ask that a non-analysis (non-disclosure) agreement be signed.

**Q: How will I know if your coating can adhere to my part?**

**A:** Given the identification of the substrate type, FSICT will be able to suggest the appropriate coating and whether a primer is needed for application. If your substrate is unknown to FSICT we suggest you send a sample for evaluation.

## Anti-Fog Coatings - FAQ

**Q: How are your anti-fog coatings applied?**

**A:** All of our coatings can either be flow coated or dip coated.

**Q: How are your anti-fog coatings cured?**

**A:** Vistex must be cured at 130°C to achieve good adhesion. Visgard, on the other hand, should be cured at 125°C, but can be cured at a lower temperature if the substrate (such as acrylic) will not accept curing at recommended temperature. The Visgard coating, as a result, will not be as abrasive resistant.

**Q: How do I clean an anti-fog coated surface?**

**A:** Anti-fog coatings can simply be cleaned with a mixture of 99% water to 1% liquid (non-abrasive) soap. In freezing conditions, Isopropyl alcohol (less than 30%) can be added to prevent freezing. Never clean the anti-fog surface to the point of becoming dry as dry rubbing may scratch the coating.

**Q: What type of substances should I keep away from anti-fog coatings?**

**A:** Our anti-fog coatings can withstand brief exposure to pure solvents. However, prolonged exposure to these same solvents will cause the coating to degrade. Chemicals with acids, oils or abrasives should never come in contact with the anti-fog coating. Silicon can also contaminate the coating both pre and post cure.

**Q: Can polysiloxane hard coats be used on the same products as your urethane based anti-fog coatings?**

**A:** There are several products on the market that require a front coat of polysiloxane hard coat with an anti-fog coating on the backside. Both sides are flow coated in different areas of the manufacturing center to avoid potential silicon contamination to the anti-fog coating.



Coating Technologies

## Business Information - FAQ

**Q: What are the prices of your anti-fog coatings?**

**A:** Prices are determined by the type of product selected and the amount required.

**Q: Is there a minimum order for anti-fog coating products?**

**A:** The minimum order is 20 kgs. However, we can supply you with material at lesser amounts for testing purposes.

**Q: Can I pay by credit card?**

**A:** We do not accept credit card payments. We do accept pre-payment in the form of a business check or a wire transfer. We will also extend a line of credit after the first order with the submittal of a credit application.

**Q: What are your business terms?**

**A:** All orders are shipped out FOB, the seller's location. For accounts with a line of credit we offer a standard Net 30 days for payment.

**Q: If I am not satisfied with the product I purchased can I return the product for my money back?**

**A:** All returns and credit requests are discussed with a company representative. The reason for return must be determined for reimbursement to occur. If a quality issue has occurred, we will replace unusable material.

**Q: Can I purchase directly through your company or do I have to use a distributor?**

**A:** We sell direct to customers within the USA. For European, and Asian customers, we have an established distribution network. However, please contact FSICT directly as we will be able to recommend a distributor based on your location.

**Q: What number do I dial if I have an immediate need for information or help?**

**A:** Please call FSI Coating Technologies, Inc. at **1-949-540-1140**, or you can e-mail your question to [customercare@fsicti.com](mailto:customercare@fsicti.com).

[fsicti.com](http://fsicti.com)

**Visgard®**  
**Vistex®**