

Powered by Sustainable Chemistry™



# 39 Years of Product Innovation

Recognized Global Leader in Anti-Fog Coating Systems

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



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- Specialty & Custom Applications
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### ■ Products Overview

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- Anti-Fog, Hard Coat, Primer Film & Sheet, and Formable Product Suites
- UV-Cure Anti-fog Coatings

### ■ Summary

- Leveraged Technology Partnership
- Enhanced Product Performance
- Global Distribution & Support



Coating Technologies

# Our Company

Established in 1986

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**39 YEARS OF PRODUCT INNOVATION**



## 39 Years of Innovation

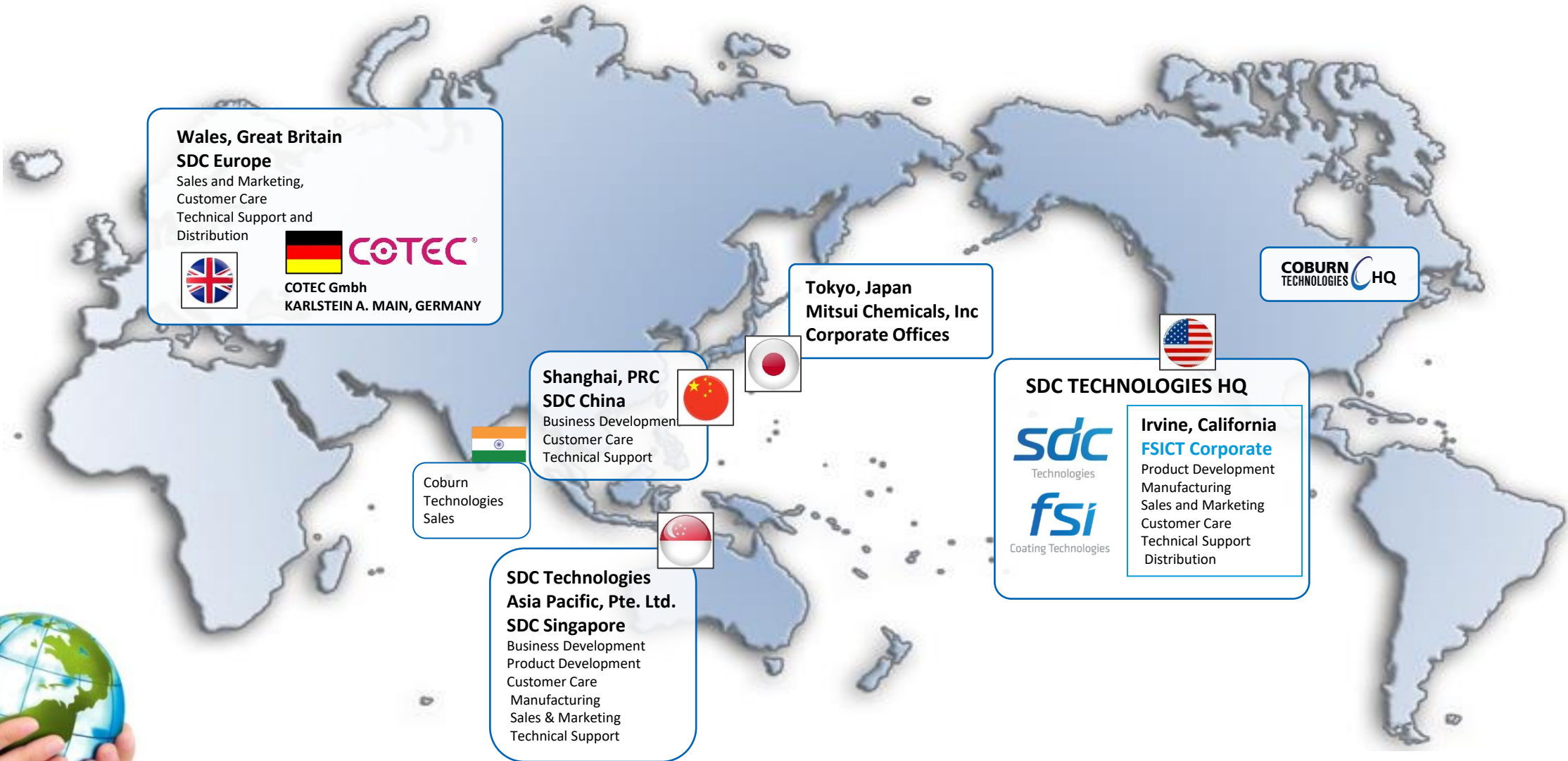
- 1986 Established as Film Specialties, Inc. to develop effective anti-fog and abrasion resistant coatings
- 2010 Acquired by SDC Technologies, Inc., (SDC) a subsidiary of Mitsui Chemicals, Inc.
- 2010 Renamed FSI Coating Technologies, Inc., rebranding of FSICT included new website at fsicti.com
- 2011 Expansion with West Coast California relocation
- 2012 Launched Visgard® Premium LFT-300 Film & Visgard Premium Plus Anti-fog coating
- 2013 Opening SDC Technologies Asia-Pacific Singapore office
- 2016 Launched Visgard Premium and Visgard Elite Anti-Fog coatings
- 2017 SDC completed acquisition and merger by integrating LTI Coating Technologies UV-Cure coatings and equipment into its business group
- 2020 SDC acquired COTEC® GmbH thin film & coatings technology
- 2021 Launched Visgard UV Anti-Fog coatings UV-Cure coatings and equipment
- 2022 SDC acquired Coburn Technologies, Inc., leader in ophthalmic equipment, consumables, and services in all phases of lens production.
- 2025 Launched Visgard Ultra PFAS-free anti-fog coating



## Pioneering Anti-Fog Technology

- Global Leader in premium anti-fog and abrasion resistant coating systems and film
  - Leveraging the integration of nanotechnology with sol-gel chemistry
- Cutting-edge research and proprietary, patented technologies
  - Advancing the science of anti-fog condensation control
- Unique coating solutions for a variety of substrates
- Support for multiple vertical markets
- Worldwide distribution network

# Global Footprint





## Advanced Technology Global Distribution & Support

### Technology/Product Development

- Elite team of Senior Chemists dedicated to discovering new technologies
- World-class, cost-effective coatings with long product life

### Manufacturing/Distribution

- In-house specialty manufacturing for both large and small quantities
- Streamline supply-chain complexity and accelerate time-to-market
- Global just-in-time (JIT) distribution

### Global Technical Support/Customer Care

- Experts in technical application consulting, ensuring high yields
- Access to state-of-the-art equipment for lab-scale feasibility studies
- Dedicated, responsive support to ensure a high-quality, consistent experience



## Corporate Stewards of Environmental Sustainability & Safety



### Quality Policy

- Pursue quality and safety in all endeavors
- Continuously improve our processes and products

### Safety Policy

- Compliant with all local/international packaging & shipping regulations
- Participate in external surveillance and internal certification audits

### Environmental Sustainability

- Manufacture environmentally friendly and energy efficient coatings
- Advocate bringing safe and innovative products to the marketplace







## Core Business Initiatives



### Our Vision

- To create value through customer partnerships
- Deliver uncompromising service
- Promote diversity and environmental responsibility



### Our Mission

- To provide premium functional coating technologies
- Focus on improving product performance & durability
- Continual development of a new generation of coatings



## Promoting Innovation Committed to Creativity

- Respect and value people and the planet
- Develop and support passionate, imaginative and enterprising thinking
- Inspire integrity and empower responsibility
- Engage and embrace a diverse and respectful workforce
- Lead by example, constantly identifying areas for improvement
- Continually create innovative global product solutions
- Community commitment, support for charitable organizations

# Code of Business Conduct



## Honesty, Respect, Confidentiality & Compliance



- Customer focused, dedicated to developing innovative high-quality products and services
- Confidentiality, non-disclosure of company, supplier and customer information (NDA's)
- Ethical acquisition and use of business intelligence
- Respect for third-party intellectual property
- Fair competition and trade practices
- Environmental conservation
- Health and safety protection

# Business Environment Trends



## Customer Needs – Competitive Advantage

### Global Consistency

- Worldwide presence
- Brand support

### Leading Edge Technology

- Continuous innovation
- Differentiated performance

### Efficient Value Chain

- Fewer suppliers
- Cost-effective solutions
- Flexible, adaptive supply base
- Application expertise





Coating Technologies

# Markets

Commercial, Industrial & Medical

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**39 YEARS OF PRODUCT INNOVATION**

# Markets Served



- Anti-Fog Film Applications
- Architectural & Building
- Automotive & Transit
- Aviation & Aerospace
- Bathroom Mirror & Shower Door
- Commercial Freezer Display Cases
  - PET Film & Industrial Sheet
- Electronics
- Greenhouse Anti-Fog Film
- Marine & Watercraft
- Medical & Safety
- Military & Security
- Specialty & Custom Applications
- Sunglass & Sports Eyewear

# Anti-Fog Film Applications



## Enhancing Visual Clarity & Personal Safety



### Features

- Pre-cured coat-film delivers permanent Anti-Fog performance
- Water-washable hard coatings & films
- Highly durable, abrasion, scratch, chemical, mar, impact & UV resistance
- Exceptional optical clarity enables safer driving & navigation
- Weatherable, will not discolor with exposure to sunlight
- Compatible with adhesives & anti-reflective (AR) coatings
- Improves safety, encapsulating and reducing occurrence of shattering glass
- Easy to install, Anti-fog surface with water clear masking release liner protects the coated surface during installation
- Easy to maintain with household ammonia-free glass cleaners

### Applications

- Automotive & Transit: windows, windshields & windscreens, instrument gauges
- Bathroom: Mirrors, windows, shower & steam room doors, saunas
- Commercial Freezer: Display & Delhi cases
- Electronics: HUD, LED & outdoor digital billboard displays





## Innovative Energy Efficient Coatings & Film



### Features

- Water-washable hard coatings & films
- Excellent resistance abrasion, scratch, chemical, fog, impact, mar & UV radiation
- Exceptional optical clarity & printable surface
- Premium weatherability & outdoor durability
- Tintable, compatible with adhesives, AR coatings & mirror treatments
- Improves safety, encapsulating & reducing occurrence of shattering glass

### Applications

- Canopies, curtains/walls, domes
- Doors, enclosures, lights
- Panels, walkways, windows







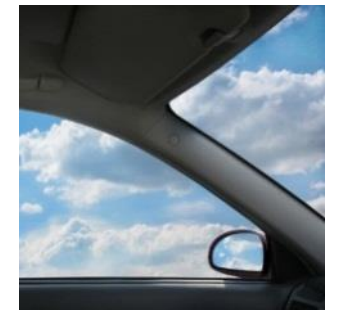
## High-Performance Solutions Improving Durability & Optical Clarity

### Features

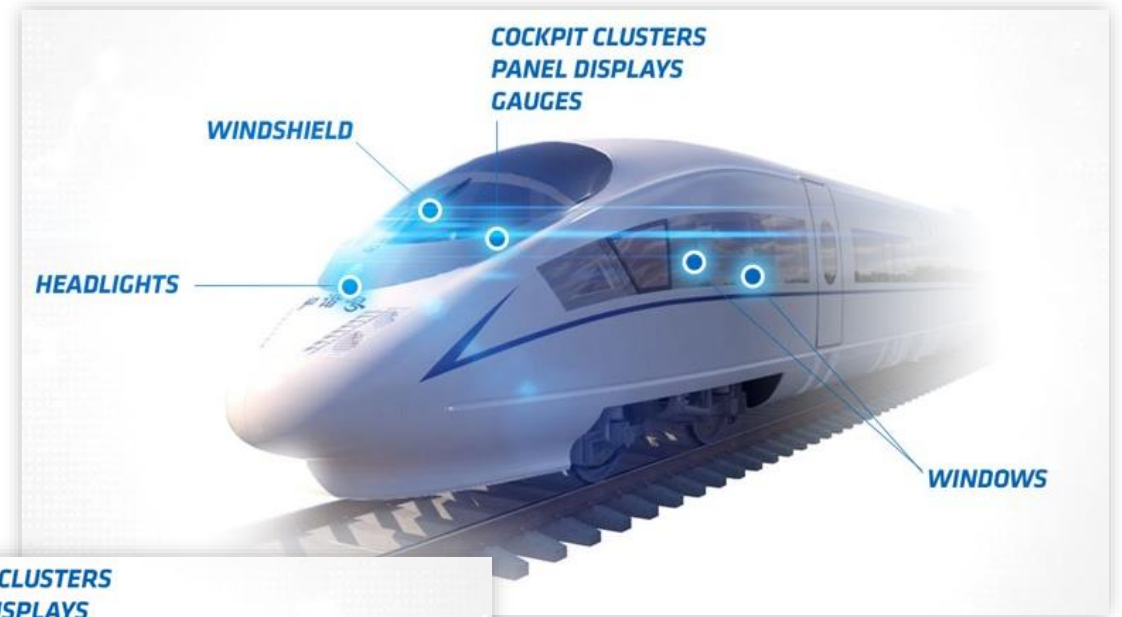
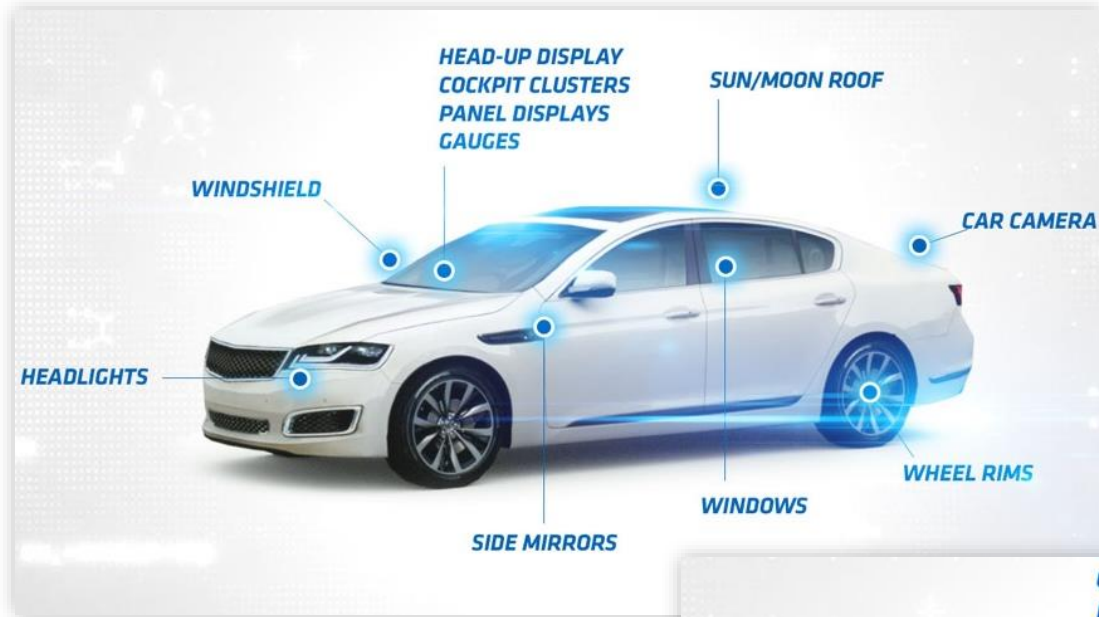
- Water-washable hard coatings & films
- Anti-Fog, abrasion, scratch & chemical resistance
- Exceptional optical clarity enables safer driving & navigation
- Premium weatherability, outdoor durability & UV protection
- Tintable, compatible with adhesives, AR coatings & mirror treatments
- Improves safety, encapsulating & reducing occurrence of shattering glass

### Applications

- Automotive & Transit: windows, side mirrors & camera systems, windscreens & windshields, canopies, lights, sun/moon roofs, cockpit instrument clusters, panel displays & gauges
- Electronics: Head-up displays, GPS navigation systems, LED lighting



# Automotive & Transit Components





## Promoting Visual Clarity & Personal Safety

### Features

- Water-washable hard coatings & films
- Anti-Fog, abrasion, scratch, chemical, impact & UV resistance
- Exceptional optical clarity enables safer driving & navigation
- Premium weatherability & outdoor durability
- Tintable, compatible with adhesives & AR coatings
- Improves safety, encapsulating & reducing occurrence of shattering glass

### Applications

- Aviation: windows, windshields, canopies, lighting, cockpit instrument clusters, panel displays & gauges
- Electronics: Head-up displays, GPS navigation systems, LED lighting
- Eyewear Protection: Goggles, face shields, visors, space helmets



# Bathroom Mirrors & Shower Doors



## Convenience & Safety in Grooming routines

### Features

- Water-washable hard coatings & coated films in 2 and 4 mil thickness
- Available with or without pressure sensitive application to flat glass and polycarbonate surfaces
- Anti-Fog, abrasion, scratch, chemical, impact & UV resistance
- Exceptional optical clarity enables safer grooming routines



### Benefits

- Chemical resistant, can be cleaned with common household glass cleaners
- Permanent anti-fog treatment, a superior solution to temporary sprays and gels



### Applications

- Residential and commercial bathroom shaving, vanity and powder mirrors
- Shower and steam room doors, saunas, and windows



## Anti-Fog Film for Cooler & Freezer Display Cases



### Features

- Superior permanent, water washable Anti-Fog performance
- Highly effective and long-lasting condensation control
- Durable even under humid and wet conditions
- Printable surface, can be digitally printed upon for advertising
- Highly durable, abrasion, scratch, mar, chemical & UV resistance

### Benefits

- Easy to install & maintain with common household glass cleaners
- Optically clear, improving visual merchandising
- Supports environmental leadership and sustainability initiatives
  - **Optimizes efficiency, reducing energy consumption of freezer/compress or operations**





## Maximizing the Durability & Performance of a Digital Lifestyle



### Features

- Anti-Fog, abrasion, scratch, chemical, impact & mar resistance
- Excellent weatherability, outdoor durability & UV protection
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Printable film surface for branding & advertising
- Tintable, easy to clean & highly durable wear resistance
- PET Film compatible with adhesives



### Coated Film Applications

- Cameras, GPS systems, smart phones, watches
- Computers, PCs, PDAs, notebooks, tablets
- Digital outdoor billboard signage & kiosks
- Electronic control panels, appliances & handled devices
- HUD, Flat Panel Display (FPD), LED, LCD (plasma screens), OLED
- TV monitors & touch panel screens





## Anti-fog Coated Film Improves Plant Quality & Growth



### Features

- Condensation can lead to plant damage, disease, scorching and reduced light transmission in a greenhouse or conservatory.
- Anti-fog coated film supports a healthier, more productive growing environment for plants
- Non-yellowing, optically clear, anti-fog controls condensation
- Provides superior water sheeting surface on greenhouses and conservatories
- Helps to control light transmission to enhance growth conditions
- Hydrophilic with anti-fog additives, enables water to migrate from the surface so water sheets off it, removing all traces of fog.

### Benefits

- Condensation control helps nurture plant growth:
  - 15-50% more light transmission
  - Higher crop yields, quality, and commercial value
  - Earlier harvesting
  - Fewer diseases and reduced need for pesticides





## Improving Visibility & Durability



### Features

- Exceptional optical clarity for safer driving and navigation
- Premium weatherability and outdoor durability
- Excellent resistance to abrasion, chemicals, impact and UV radiation
- Hydrophilic, water sheeting anti-fog properties
- Primer-free adhesion to polycarbonate and acrylic substrates
- Tintable and printable surface

### Applications

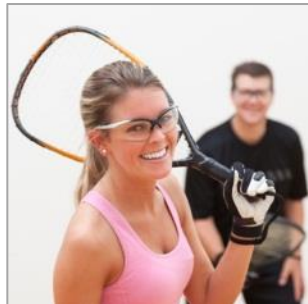
- Electronics: Panel and Heads-up Displays (HUD), LED lighting
- Hullside and boat deck windows, windshields, and windscreens
- Navigation: GPS navigation systems, cockpit instrument clusters and gauges







## Permanent, Water-Washable Anti-Fog Solutions



### Features

- Highly durable, abrasion, scratch, chemical, impact & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with mirror & anti-reflective (AR) treatments
- Provides superior impact protection to bullet/shatter proof glass
- Improves safety, encapsulating & reducing occurrence of shattering glass
- Meets or exceeds safety standards for fog, abrasion & UV protection

### Applications

- Automotive & Transit: Armored & security vehicle windshields, windows & doors
- Medical: Electronic display panels, surgical camera equipment, cardiovascular stents & vascular implant devices
- Protective Safety: Eyeglasses, face shields, masks, goggles & visors





## Applications Where Visual Clarity is Imperative



### Features

- Highly durable, abrasion, scratch, chemical, impact, mar & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with mirror & AR treatments
- Provides superior impact protection to bullet/shatter proof glass
- Improves safety, encapsulating & reducing occurrence of shattering glass
- Meets or exceeds safety standards for fog, abrasion & UV protection



### Applications

- Protective Safety: Eyeglasses, face shields, masks, goggles & visors
- Optical Equipment: Binoculars, rifle/night/laser scopes, surveillance cameras
- Aircraft: Canopies, cabin windows, cockpit instrument clusters
- Automotive & Transit: Military vehicle windshields, windows, instrument gauges & guidance systems





## Superior Anti-Fog Performance



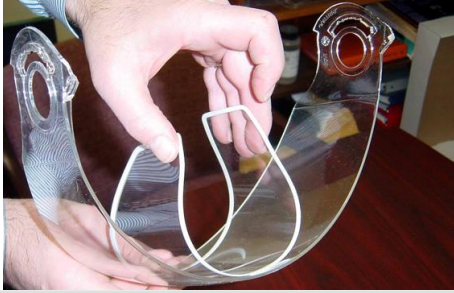
### Features

- Highly durable, abrasion, scratch, chemical, impact, mar & UV resistance
- Permanent, water-washable Anti-Fog coatings & films
- Exceptional optical clarity, extremely hydrophilic & hydrophobic for 100% visibility
- Easy to clean, excellent wear resistance & outdoor durability
- Tintable, compatible with anti-reflective, mirror & metalizing treatments
- Meets or exceeds safety standards for fog, abrasion & UV protection



### Applications

- For Application to tinted and clear substrates
  - Polycarbonate, polyamide (optical nylon), cast resins & acrylic
- Ophthalmic Lens Prescription Eyewear
- Protective & Safety Eyewear Devices (eye glasses, face shields, masks goggles & visors)
- Sunglass & Sports Eyewear (shields, masks, goggles, visors)



## Simple to Complex Design & Production Assistance

- Support team to assist with initial production and design
- Expert sciences review requirements for the best product fit
- Ability to develop customized coating formulations
- Contract manufacturing services available for:
  - Appliqué shapes & perimeter adhesion
  - Custom die-cut lenses
  - Specialized laminations & metalized tinted films

# Products

Anti-Fog Coatings, Film & Sheet, Formable, Specialty



**39 YEARS OF PRODUCT INNOVATION**



## Product Solutions to Improve “YOUR” Brand

- Anti-Fog Product Suite
- Anti-Fog Film & Sheet Product Suite
- Anti-Fog PET Film Products
- Formable Coatings Product Suite
- Specialty & Custom Applications
- UV-Cure Anti-fog Coating



## Innovative Product Solutions



- Anti-Fog
- Highly Abrasion & Scratch Resistant
- Chemical & Impact Resistant
- A/R (Anti-Reflective) Compatible
- Environmental Stability
- Flexible
- Hydrophilic & Hydrophobic
- Optical Clarity
- Thermal & UV-Cure Coatings
- Tintable
- Water Sheeting



## Enhanced Product Performance & Quality

- Easily integrate into your existing operations, requires no-premixing
- Improves product performance, utility, appearance & quality
- Primer-free product offerings accelerate production
- Environmentally friendly options available
- Easy to use and highly stable products, can be stored at room temperatures
- Cost-effective long product service life reduces frequent tank change outs
- Multi-substrate compatible coatings streamline manufacturing, improving yields and profitability
- Access to FSICT's global tech support team for product validation & application

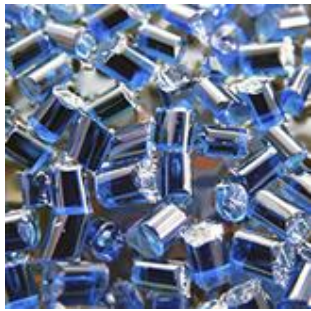




## Multiple Applications



- Acrylic
- Aluminum & Other Non-Ferrous Metals
- Glass
- PET Film & Sheet
- Polyamide (Optical Nylon)
- Polycarbonate & Other Plastics





## Multiple Coating Applications

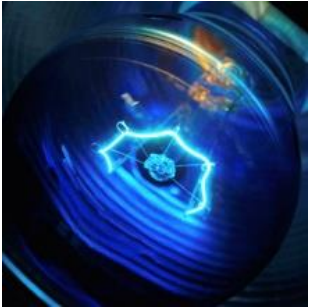


- Cast
- Fabricated Plastics, Metal & Glass
- Forged & Non-Ferrous Metals
- Injection Molded
- Plastic Film & Sheet





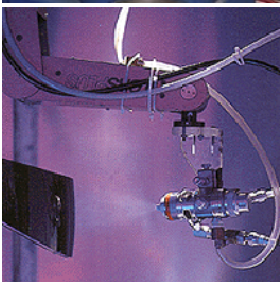
## Multiple Product Options



- Anti-Fog (Water-Washable)
- Formable
- Hard Coating
- Multi-Purpose
- Primer & Primer-Free
- Thermal & UV-Cure



# Coating Application Methods



- **Dip**
  - Two-sided coating provides high throughput and the ability to maintain thickness control
  - Ideal for lenses and small parts
- **Flow**
  - Effective for large or uniquely shaped parts
  - Well suited for plastic sheeting and large shapes
- **Laminate**
- **Roll-to-Roll**
  - One-sided coating, ideal for UV-cure coatings
  - Ideal, continuous process for film and sheet
- **Self-Adhesive Film**
- **Spin**
  - One-sided coating features good thickness control
  - Perfect for lenses
- **Spray**
  - One-sided coating ideal for large or complex parts, offers high throughput
  - Applications include cell phone windows and casings



## World-Class Anti-Fog Coatings

### Applications

- Safety/Military/Sports/Sunglass Eyewear & Swim Goggles
- Industrial Sheet & PET Film for Freezers
- Instrument Gauges/Panels/Clusters

### Features

- Single and double coat systems
- Primer, primer-free & water-based options
- Thermaformable and flexible
- Anti-fog (permanent), abrasion, impact & chemical resistant
- Compatibility with mirror coating treatments (AF-6114)
- Dip, flow, roll & spray coat compatible
- Thermal & UV-cure options

### Anti-Fog Product Options

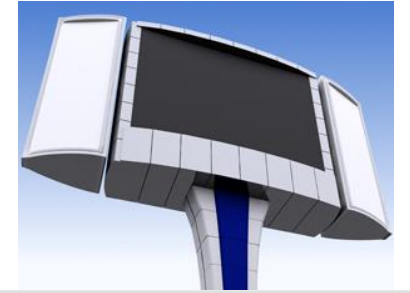
- Polysiloxane
  - Non-Water washable & water-washable
- Urethane
  - Permanent water-washable, EN-166/EN-168 compliant
  - Hydrophobic & hydrophilic
  - Superior water-sheeting properties



# Anti-Fog Film & Sheet



## Commercial, Industrial & Medical Applications



### Markets Served

- Architectural & Building (Conservatory/Greenhouse, Mirrors)
- Automotive & Transit (Aerospace, Bus/Coach, Marine, Motorcycle, Rail)
- Commercial Freezer Display Cases
- Electronics (HUD, LED, Digital Billboard Displays)
- Medical & Safety

### Features

- Film Applications: Glass, PET Film & Sheet, PC
- Anti-fog, abrasion, impact and chemical resistant
- Excellent formability

### Available Options

- Permanent anti-fog coated film with or without pressure sensitive adhesive
- Anti-fog film for single-use, disposable products
- Standard rolls & customized appliqué



## Commercial & Industrial Applications



### Markets Served

- Architectural Glazing
- Bathroom & Shower Mirrors
- Commercial Freezer & Delhi Display Cases
- Industrial Safety & Sports Visors, Eyewear & Masks
- Instrumental Crystal & Display Lenses

### Features

- Film Applications: Glass, PET Film & Sheet, PC
- Permanent anti-fog with superior abrasion resistance
- Exceptional optical clarity & consistency

### Available Options

- Permanent anti-fog coated film with or without pressure sensitive adhesive
- Anti-fog film for single-use, disposable products
- Standard rolls & customized appliqué

# Formable Coating Product Suite



## Exceptional Abrasion Resistance & Optical Clarity



### Markets Served

- Automotive & Transit
- Architectural & Building
- Electronics
- Protective Eyewear

### Features

- Outstanding Abrasion, Scratch & Chemical Resistance
- Formable, Flexible & Tintable
- Optically Clear, Permanent Anti-Fog Performance
- Will Not Discolor with Exposure to Sunlight
- Adhesion to PC, PMMA, CR-39®, Nylon & Other Plastics

### Available Options

- Thermal Cure
- Single & Double Coat Systems
- Flow & Dip Coat Compatible







## Performance Powered by Sustainable Chemistry



### Markets Served

- Ophthalmic Eyewear
- Protective Eyewear: eyeglasses, face shields, masks, goggles and visors

### Features

- Outstanding Abrasion, Chemical, Fog, and UV Resistance
- Exceptional optical clarity
- Water washable and water sheeting
- Primer-free adhesion to polycarbonate

### Benefits

- Excellent stability and product durability, extended anti-fog service-life performance
- Eco-friendly, reduced VOC emissions
- Environmentally conscious UV light, energy efficient fast curing
- Good cosmetic appearance, transparent anti-fog, hydrophilic easy clean surface



# Summary



39 YEARS OF PRODUCT INNOVATION



## Strategic Development Partner

- Your strategic product development partner with a common focus on continuous quality improvement
- Dedicated to world-class operations & global customer relationships
- Committed to delivering uncompromising service that exceeds customer expectations
- Localized technical support teams backed by central R&D Department accelerates product development



## Why Choose FSICT?

- Long and successful record of continuous growth through technical innovation
- Comprehensive portfolio of patented premium anti-fog coatings and films for multiple applications
- FSICT's innovative solutions improve the durability and performance of the world's most recognized products
- Extensive support and distribution network



## Enhancing Product Durability



- Trusted by the World's Most Prestigious Brands
- From the 2012 Olympic Games swim goggles, to NASA Space Mission helmets, our premium coatings are used to enhance products where high performance is critical.
  - Best-in-class abrasion, chemical, fog, impact and scratch resistance
  - Exceptional optical clarity and environmental durability
- Global Manufacturing Capacity
  - Closely aligned to our global customers to deliver product, service, and support 24x7



# What We Can Do Together is Boundless



## Innovative Product Solutions

- Enhance your products' performance and image
- Leverage FSI's proprietary, patented technology
- Rely on consistent, certified products
- Access global JIT delivery and support
- Support partnership for your product:
  - Evaluation
  - Qualification
  - Implementation
  - Commercialization
  - Future development strategies

Performance with Chemistry™

The logo for FSI Coating Technologies, featuring the lowercase letters 'fsi' in a bold, blue, sans-serif font.

Coating Technologies

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



39 Years of Innovation  
Global Leader in Anti-Fog Coating Systems

The logo for SDC Technologies, featuring the lowercase letters 'sdc' in a bold, blue, sans-serif font, with the word 'Technologies' in a smaller, blue, sans-serif font below it.