

# High Performance Chemistry™



## SDC Corporate Presentation

2023





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# Company

Vision, Mission, Values

**VIDEO**



37 YEARS OF PRODUCT INNOVATION



## 37 Years of Innovation

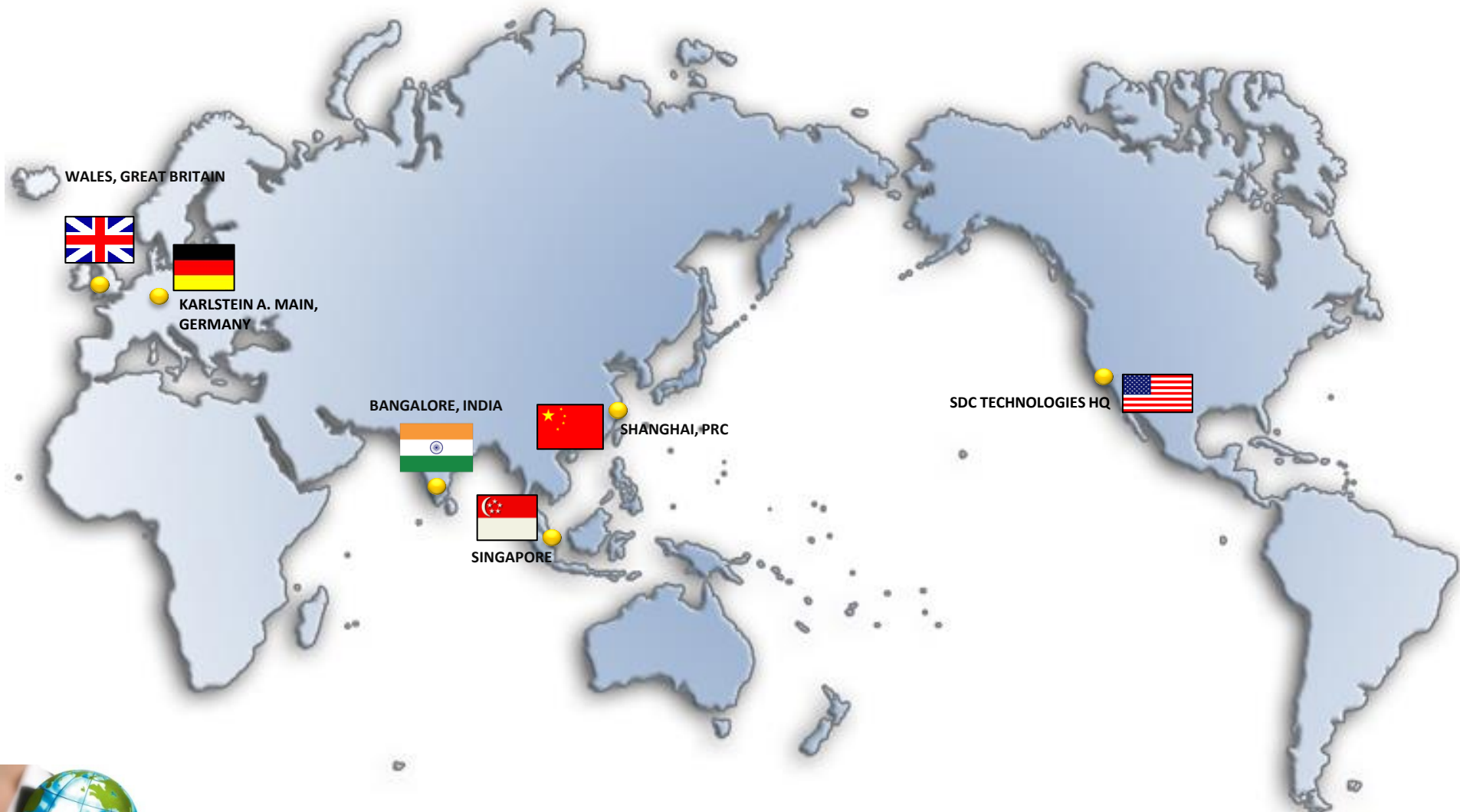
- 1986 Joint Venture of SDC ([Swedlow Coatings, Inc.](#) and [Dow Corning Enterprises, Inc.](#)) for Automotive & Aerospace Hard Coatings
- 1988 Partnered with Nippon Sheet Glass in Japan for Asia expansion
- 1989 Opened European Site
- 1996 SDC developed and patented a wide range of abrasion resistant products
- 2006 Established China Office to expand presence in Asia
- 2008 Expanded & Relocated Headquarters to Irvine, CA
- 2008 Acquired by Mitsui Chemicals Inc. in Japan
  - Global Leader of Premium High-Index Optical Monomers ([MR-Series™: MR-8™, MR-7™, MR-10™, MR-174™](#))
  - SDC operates as an Independent Wholly-Owned Subsidiary of Mitsui
- 2010 SDC Acquired [FSI Coating Technologies, Inc.](#), Anti-fog Technology Leader
- 2011 Mitsui Chemicals, Inc. acquired Acomon AG
  - Established in 1980, RAV 7® and RAVolution® Low-Index Optical Monomers in Switzerland
- 2013 Mitsui Chemicals, Inc. acquired KOC Solution Co., Ltd.
  - Established in 1999, KOC® Mid, High, Super-High Index, Photochromic & Impact Resistant Optical Monomers in Korea & China
- 2013 Opening SDC Technologies Asia-Pacific Singapore office
- 2014 SDC Purchases Majority Ownership of Lens Technology I, LLC , Ophthalmic UV-Cure Hard Coatings (renamed [LTI Coating Technologies, LLC](#))
- 2017 LTI merger acquisition completed and fully integrated into SDC Technologies
- 2020 SDC acquired [COTEC GmbH](#), leader in PVD Finishing Materials, CVD Thin Film Applications, and Coatings Technology
- 2022 SDC acquired [Coburn Technologies, Inc.](#), leader in ophthalmic equipment, consumables, and services in all phases of lens production



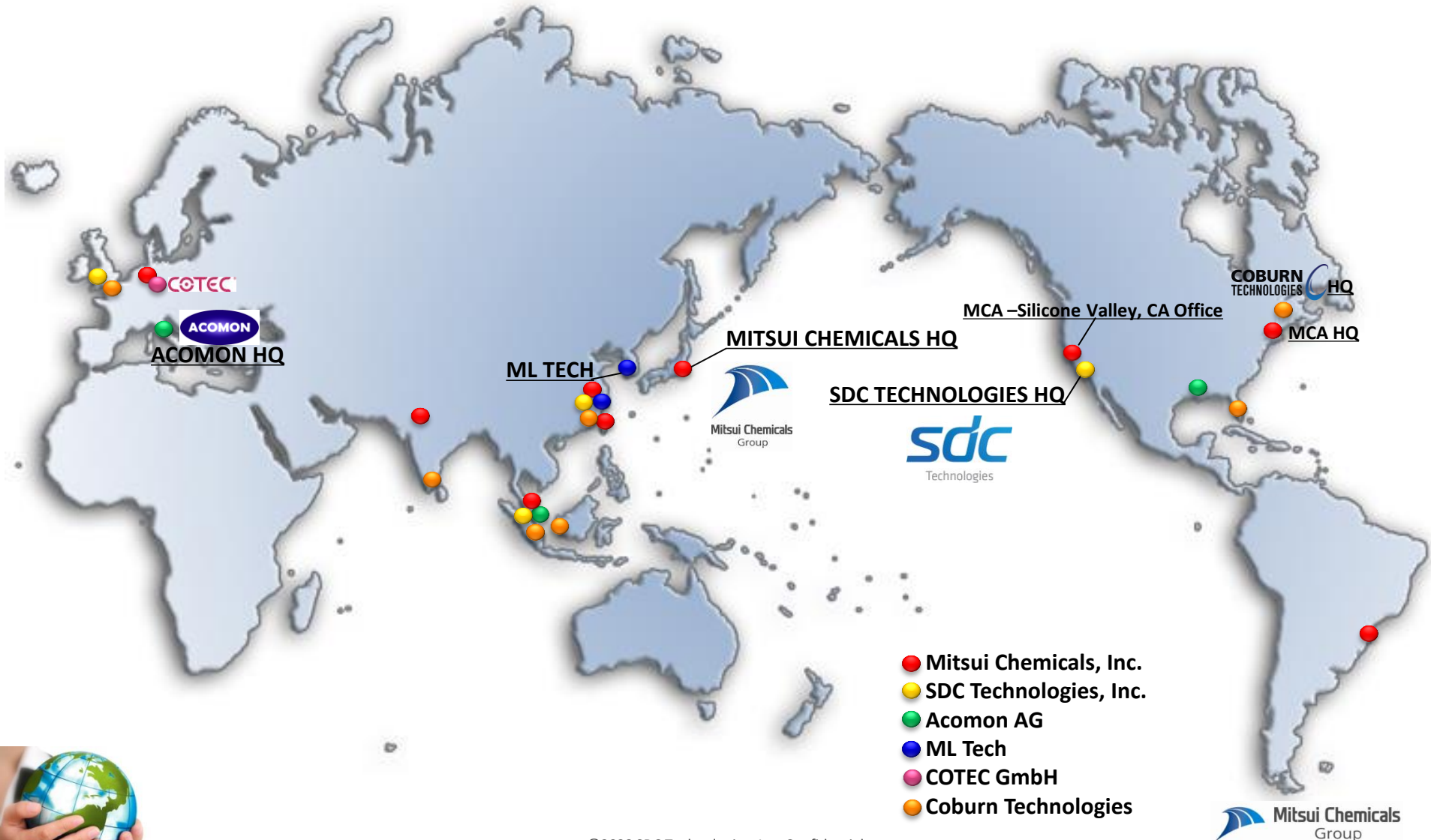
## Pioneering Coating Technologies

- Recognized Global Leader of Premium Abrasion-Resistant Coatings
  - Expanding the Science of Sol-Gel Chemistry
- Cutting-edge Research and Proprietary, Patented Technologies
- CrystalCoat<sup>®</sup>, CrystalChrome<sup>®</sup>, CrystalSpin<sup>®</sup>, FormGard<sup>®</sup> and 3DLite<sup>®</sup> product portfolio
- 100+ patents & patents-pending globally
- Engineering Unique Coatings for a Wide Variety of Substrates
- Support Multiple Vertical Markets
- Manufacturing Quality Certification: ISO 9001: 2015
- Worldwide Distribution Network

# SDC Technologies Footprint



# Global Vision Care Group





# Total Lens Solution



**Hydrophobic, Oleophobic**  
Coating

**Anti-Reflective**  
Coating



**Abrasion, Chemical and Impact Resistant**  
Coating

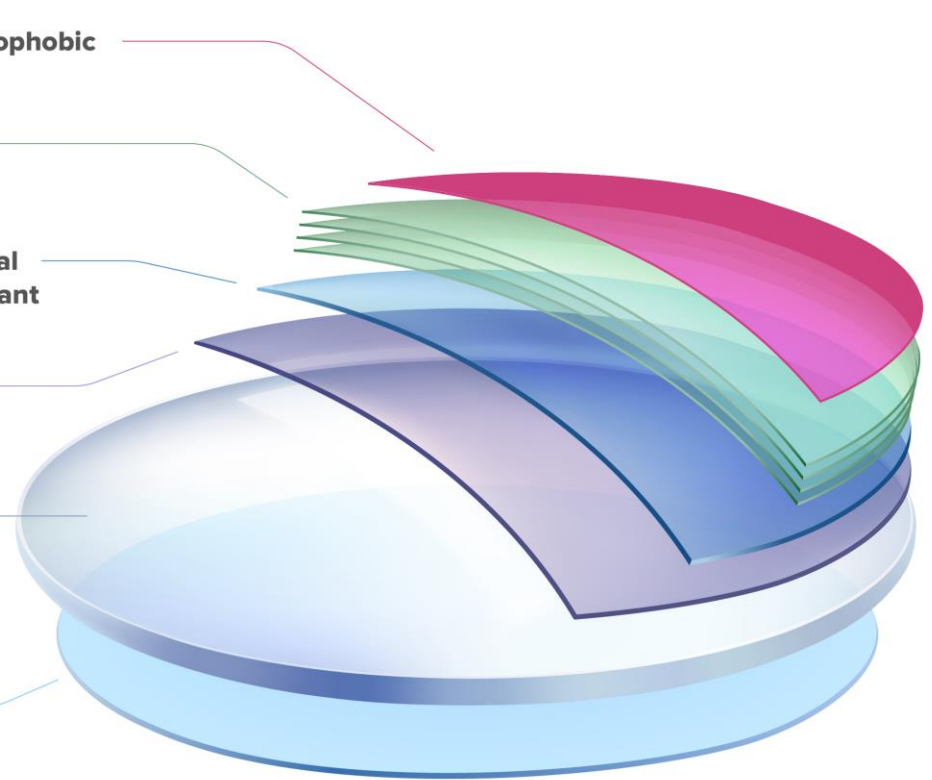
**Primer**  
Coating



**High Refractive Index**  
Lens Materials




**Anti-Fog**  
Coating



 Mitsui Chemicals

 MR™

**High-Refractive**  
Index Lens Material



 **SDC**  
Technologies

**CrystalCoat®**

**Anti-Abrasion**  
Coating




 **fsi**  
Coating Technologies

**Visgard®**


**Anti-Fog**  
Coating



 **COTEC®**

**DURALON**

**Ultra-Hydrophobic**  
Coating





Global Standard for high refractive index  
lens materials – MR™



by Mitsui Chemicals

**It is an innovative material for lenses  
that offer a balanced set of features:**

- Thin and Light
- Impact Resistance
- Tintable
- Optical Clarity

Improving the World's Most Recognizable Brands

## CrystalCoat®

**Anti-abrasion  
Resistant Coatings**



- Chemical Resistant
- Index-Matched
- Impact Resistant
- Primers
- Scratch Resistant
- Tintable
- UV and Thermal Cure

## CrystalChrome®

**Photochromic  
Coating**



- Fast Darkening and Fading Speed
- Suitable for All Lens Materials
- Dip or Spin Coat Thermal Cure Process

## CrystalSpin®

**UV-Cure Spin  
Coating Equipment**



- Solvent-free or Solvent-Based
- Designed to Clean, Coat and Cure Lenses



**fsi**

Coating Technologies

## Best in Class Anti-fog Coating Systems

NASA Approved Anti-fog for Space Helmets and Olympic Swim Goggles.

**Visgard®**      **Vistex®**

### Anti-fog Coating Systems

- Hydrophilic
- Permanent Anti-Fog
- Thermal & UV-Cure
- Water-Washable
- Water-Sheeting

# COTEC®

Materials | Vacuum | Coating

## Ultra Hydrophobic Coatings DURALON®



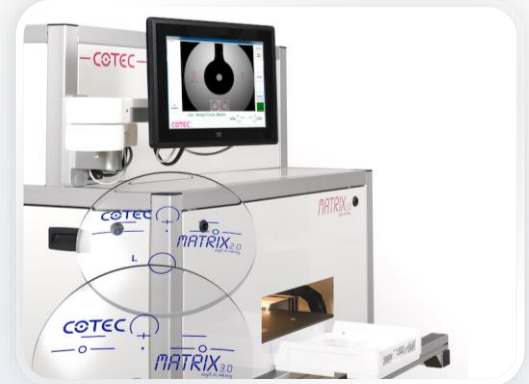
- Anti-Fingerprint
- Anti-Smudge
- Easy-To-Clean
- Durable

## Anti-reflective And Other PVD Materials

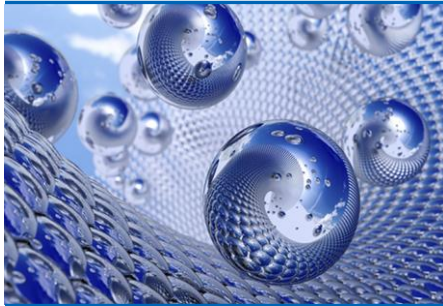


- Enhances Surface Properties
- Maximizes Comfort
- Reduce Eye Strain

## Handling, Testing Systems And Equipment



- Printing
- Coating
- Evaluating



## 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/small quantities
- Streamline supply-chain complexity and accelerate time-to-marketing
- Global, just-in-time (JIT) distribution

### Worldwide Technical Support/Customer Care

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



## Continuous Improvement



### Quality Policy

- Pursue quality and safety in all endeavors
- Continually improve our processes and products
- ISO 9001:2015 Certified, ISO certified since 2001

### Safety Policy

- Facilities built to comply with the strictest environment and safety standards
- Participate in external surveillance, internal ISO certification audits
- Compliant with all packaging and shipping regulations globally



### Environmental Sustainability

- Manufacture environmentally friendly and energy efficient coatings (UV cure, water-based, low VOC, Solvent-Free)
- Advocate bringing safe and innovative products to the marketplace





## Powerful Symbiotic Partnership



### Mission

- To be a “Trusted Advisor” to our customers with demonstrated expertise in product development, coating application and high yields.

### Program Features

- Catalyst for generating ideas, exploring concepts and creating value through innovation.
- Deliver high performance coatings globally, aligned with your requirements.

### Customer Benefits

- Complement your internal R&D resources without additional costs.
- Localized product application expertise, ensuring maximized yields.
- Accelerate your time-to-market.

**Collective collaboration to achieve the best results.**



## 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 and durability
- Continual development of a new generation of coatings



### Our Values

- Devoted to the highest ethical conduct standards for performance and accountability
- Commitment to customer relationships grounded on trust and integrity



## Honesty, Respect & Confidentiality

### Business Conduct

- Support passionate, creative and enterprising thinking
- Inspire integrity, empower responsibility
- Engage and embrace diversity and respect
- Lead by example, continually seeking improvement
- Continual innovation and pursuit of quality and excellence

### Business Relations

- Confidentiality, non-disclosure, and respect for intellectual property
- Ethical acquisition and use of business intelligence
- Fair competition and trade practices
- Environmental conservation, health and safety protection



## Competitive Advantage

### Global Consistency

- Worldwide presence
- Support of brand extensions

### Leading-Edge Technology

- Continuous product innovation
- Differentiated product performance

### Efficient Value Chain

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



THE RECOGNIZED GLOBAL LEADER

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# Markets

## Commercial & Industrial

A photograph of laboratory glassware, including several beakers and a pipette, with a blue gradient overlay. The pipette is positioned over one of the beakers, and a drop of liquid is visible at its tip.

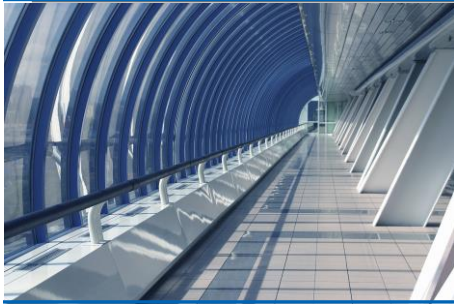
37 YEARS OF PRODUCT INNOVATION



## Complementary Hard Coats, PVD Materials, Film, Sheet & Primers

- Anti-Fog Coating & Film Applications
- Architectural & Building
- Augmented, Virtual, Mixed Reality
- Automotive & Transit
- Aviation & Aerospace
- Commercial Freezer Display Cases
- Electronics & Display Technology
- Marine & Watercraft
- Medical & Safety
- Military & Security
- Ophthalmic Solutions
- Precision & Special Optics
- Specialty & Custom Applications
- Sunglasses & Sports Eyewear





## Enhancing Durability & Optical Clarity

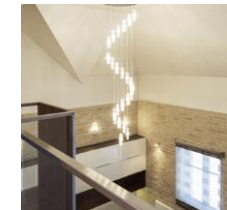
### Features

- Large surface area PVD materials
- Exceptional optical clarity
- Excellent resistance abrasion and chemical resistance
- Primer-free adhesion to PC, acrylic & metal substrates
- Tintable & Printable surface
- Solvent and Solvent-free (100% Solids) coating options



### Applications

- Architectural: covered walkways, balconies and railings, staircases and canopies
- Building Supplies: doors, windows, wall partition dividers
- Home Improvement: kitchen counters, cabinets, deck patio/porches, flooring
- Furniture: tables, chairs, lighting fixtures, chandeliers





## Accelerating Durability and Optical Clarity



### Features

- Exceptional optical clarity
- Excellent resistance to abrasion, scratch, chemical, impact & UV radiation
- Premium weatherability & outdoor durability
- Hydrophobic & oleophobic easy-clean properties
- Versatile, primer-free adhesion to acrylic and PC
- Compatible with A/R, mirror & metalizing treatments
- Highly stable, maximizing product yields

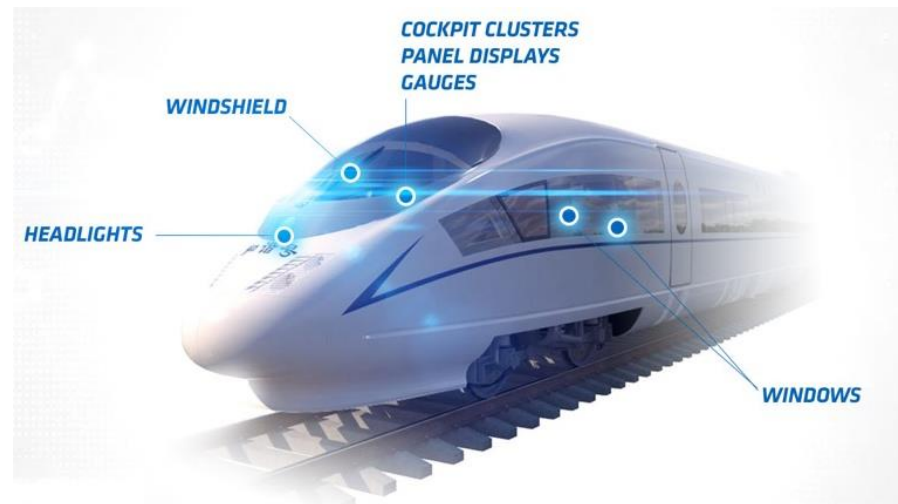
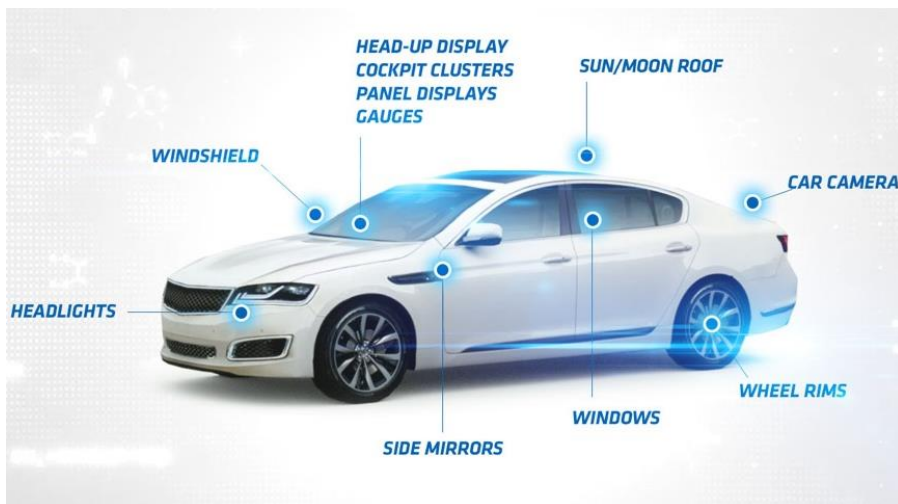


### Applications

- Automotive & Transit: windows, side mirrors & camera systems, windshields/screens, canopies, lights, sun/moon roofs, cockpit instrument clusters, panel displays & gauges, aluminum wheel covers
- Electronics: Head-up displays, GPS navigation devices and systems, LED lighting
- Headlight and reflector metallization



# Automotive & Transit Components



VIDEO



## Elevating Aircraft Equipment Durability & Performance

### Features

- Exceptional optical clarity
- Excellent resistance to abrasion, scratch, chemical, impact & UV radiation
- Premium weatherability & outdoor durability
- Anti-static, anti-fog, anti-fingerprint, easy clean properties
- Compatible with A/R, mirror & metalizing treatments
- Highly stable, maximizing product yields

### Applications

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



# Aviation & Aerospace Components

COCKPIT INSTRUMENT CLUSTERS  
PANEL DISPLAYS  
GAUGES  
HEAD-UP DISPLAYS  
GPS NAVIGATION DEVICES/SYSTEMS  
LED LIGHTING  
LIGHTING

WINGTIP LIGHTS

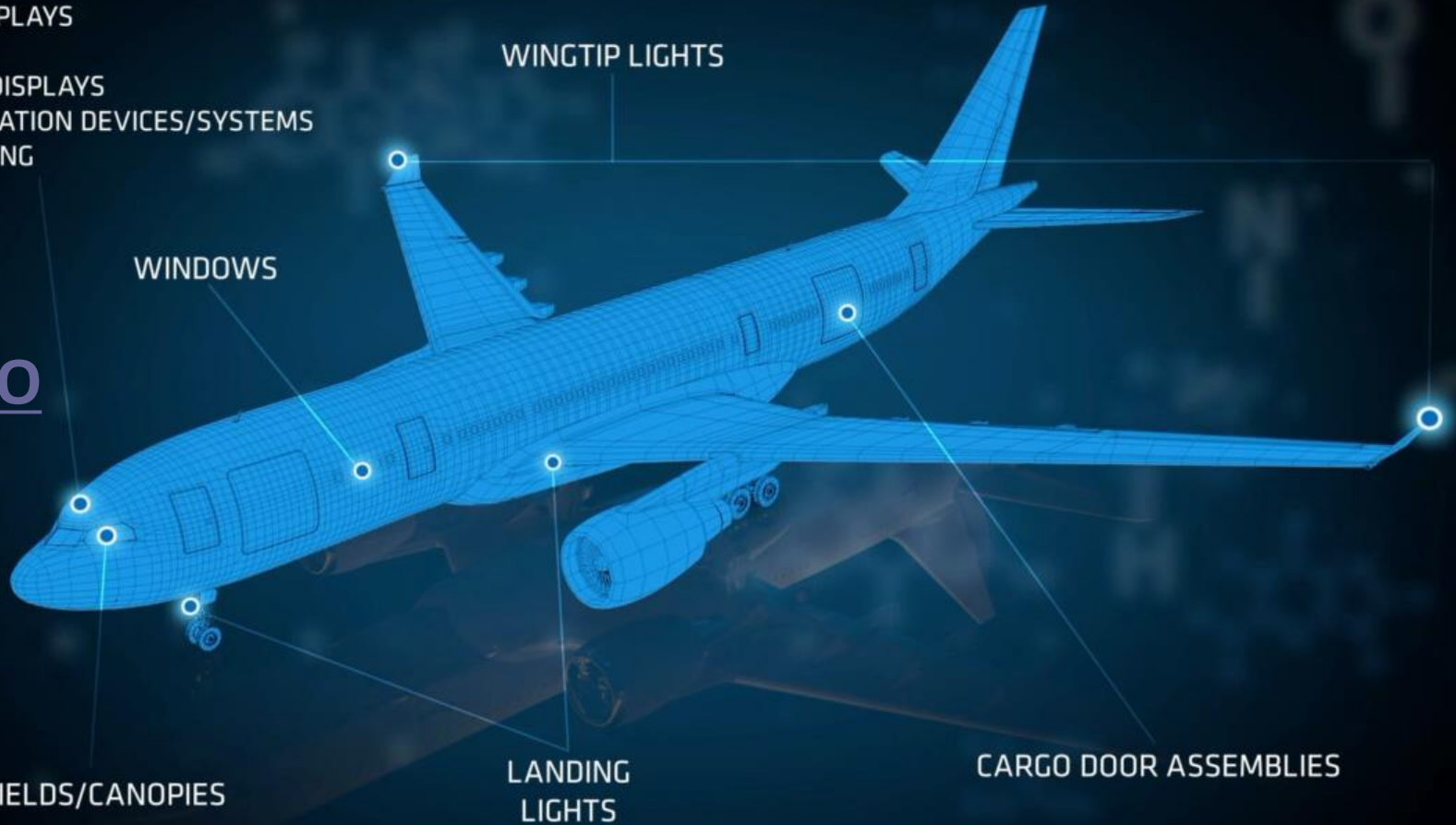
WINDOWS

VIDEO

WINDSHIELDS/CANOPIES

LANDING  
LIGHTS

CARGO DOOR ASSEMBLIES





## Anti-Fog Film for Cooler, Deli & Freezer Display Case Doors

### Features



- Superior water washable anti-fog, abrasion, scratch, mar & UV resistance
- Highly effective and long-lasting condensation control
- Easy-Clean, anti-fingerprint, smudge proof, anti-slip
- Durable even under humid and wet conditions
- Printable surface, can be digitally printed upon for advertising

### Benefits



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



## Maximizing Durability & Performance of Digital Products

### Benefits

- CrystalCoat® provides durability to all types of plastic, plastic films, metal (aluminum, stainless steel) and metalized parts

### Features

- Premium anti-fog, abrasion, scratch and chemical resistance
- Water-washable hard coatings and films
- Highly durable, weatherable and UV-protection
- UV - cure coating options available
- Compatible with A/R, mirror and metalizing treatments
- Easy-Clean, anti-fingerprint, smudge proof, anti-slip

### Applications

- Superior coating solution for multiple electronic devices such as:
  - Cameras, GPS Systems, and plastic watch crystals
  - Desktop, laptop, tablet, notebook, and mobile computers
  - Digital outdoor billboard signage and kiosks
  - eReaders, digital notebook readers such as Kindle
  - HUD, Flat Panel Display (FPD), LED, LCD (plasma screens) OLED Portable multi-purpose Internet communications/media and PDA devices (ie. iPad)
  - Mobile and smartphone windows and casings
  - TV monitors, touch panel screens





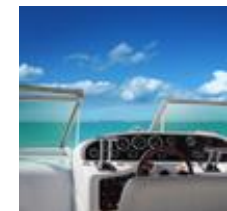
## Accelerating Durability & High Performance

### Features

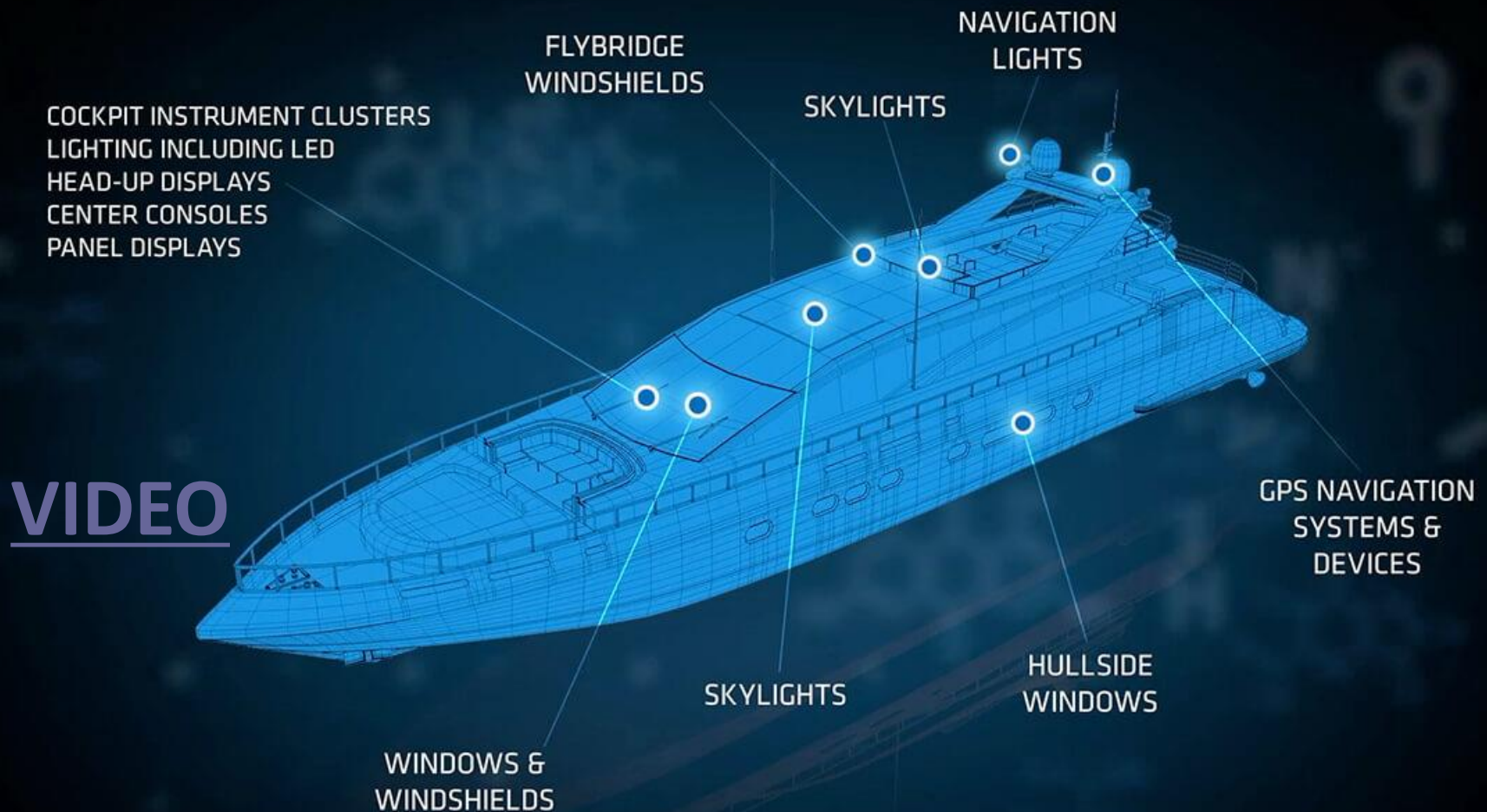
- Exceptional optical clarity for safer driving and navigation
- Premium weatherability and outdoor durability
- Excellent resistance to abrasion, chemicals, impact and UV radiation
- Hydrophilic, water sheeting anti-fog properties
- Hydrophobic & oleophobic easy-clean
- Primer-free adhesion to polycarbonate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

### 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



# Marine & Watercraft Components





## Optimizing Visual Clarity And Product Durability

### Benefits

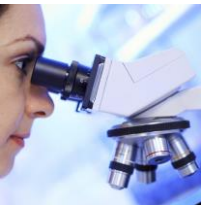
- CrystalCoat® provides durability to all types of plastic, plastic films, glass, metal and metalized parts

### Features

- Superior optical quality
- Premium anti-fog, abrasion, chemical impact and scratch resistance
- Water-washable hard coatings and films
- Weatherable and UV-protection
- Hydrophobic & oleophobic easy-clean properties
- Tintable permeable, fasting tinting and color-fast
- Cures at low temperatures, resistant to ink ghosting

### Applications

- Medical electronic displays and devices, surgical and diagnostic camera equipment, microscopes
- Automotive and transit, armored and security vehicle windshields, windows, and doors
- Protective & Safety eyewear: visors, face shields, visors, masks and goggles







## Applications Where Visual Clarity is Imperative

### Benefits

- CrystalCoat® provides durability to all types of plastic, plastic films, glass, metal and metalized parts

### Features

- Superior optical quality
- Premium anti-fog, abrasion, chemical impact and scratch resistance
- Water-washable hard coatings and films
- Weatherable and UV-protection
- Hydrophobic & oleophobic easy-clean properties
- Tintable permeable, fasting tinting and color-fast
- Cures at low temperatures, resistant to ink ghosting

### Applications

- Provides superior protection to bullet/shatterproof glass (cars)
- Optical equipment: binoculars, rifle, night and laser scopes & surveillance cameras
- Aircraft canopies, cabin windows, cockpits & instrument clusters
- Military tank and security vehicle windows, windshields, instrument gauges and guidance systems
- Protective & Safety eyewear: visors, face shields, visors, masks and goggles





## Exceptional Product Durability & Visual Clarity



### Features



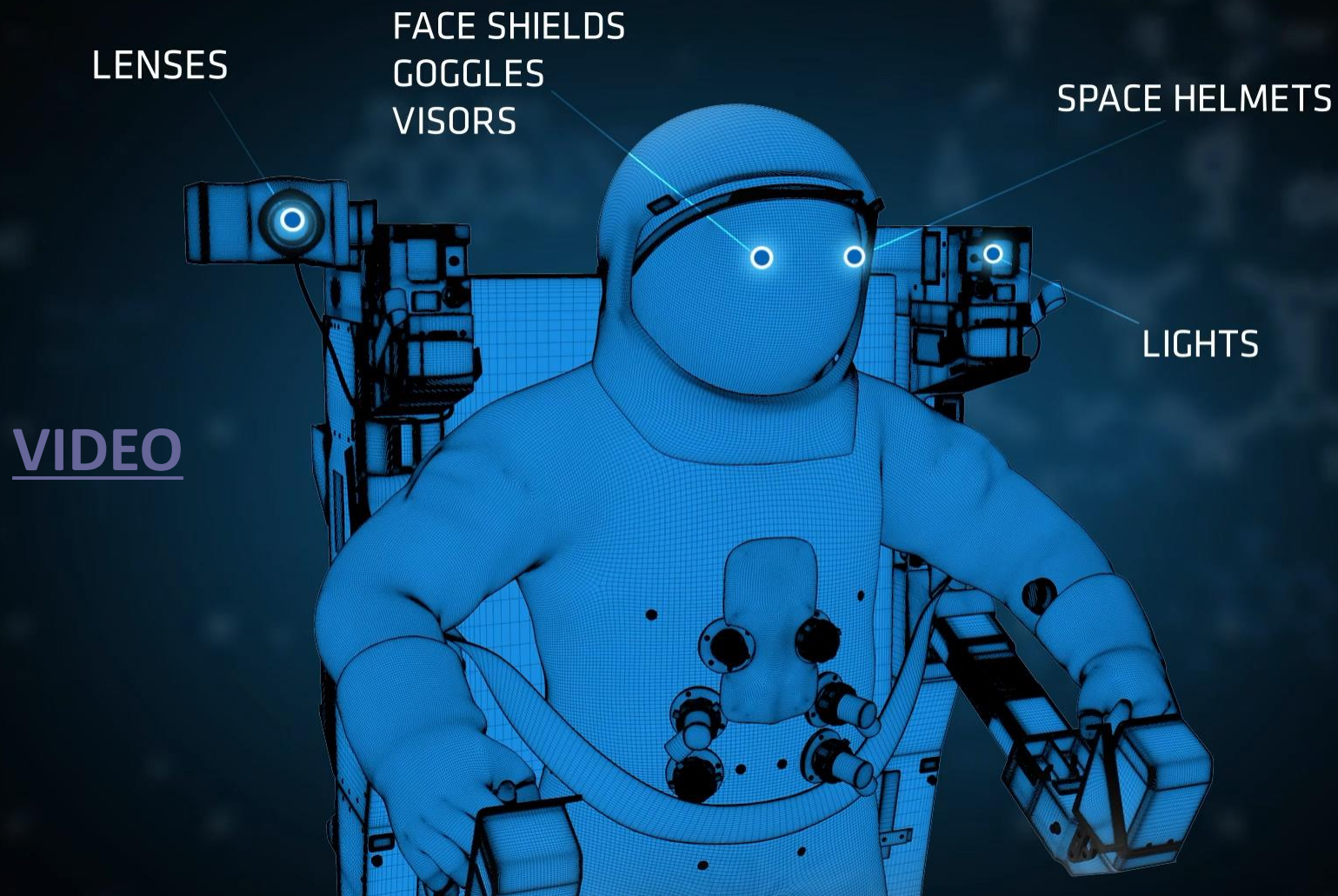
- Transparent, exceptional optical clarity
- Abrasion, chemical and scratch resistant
- Premium weatherability & outdoor durability
- Easy-Clean, anti-fingerprint, smudge proof, anti-slip
- Compatible with A/R, mirror & metalizing treatments

### Applications



- Aerospace avionics: communication, navigation and display multi-systems
- Aircraft precision optical assemblies and optronics solutions
- Architectural indoor LED lighting, solar concentrators and panels
- Augmented reality (AR) glasses, and virtual reality (VR) goggles
- Automotive lighting: interior, head /tail, backup cameras, sensors
- High-End Sensors & Camera Lens: back-up and side driving mirror, security, domes for self-driving cars
- Commercial scanner/print-head, barcode reader, semiconductor inspection equipment
- Heads-up Display (HUD) transparent panels for GPS, information/infotainment systems
- Medical diagnostic imaging devices, endoscopes, head mounted optics, microscope lens
- Military & Defense Helmet Mounted Display System (HMDS), night vision and guidance systems

# Optics Components



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# Vision Eyewear

Our specialty, providing coating solutions for the world's most prestigious brands.

# Vision Eyewear Vertical Market



## Eyewear Markets

- Rx Prescription
- Safety and Military
- Sports
- Sunglass



## Customers

- Leading Rx Prescription Lens Manufacturers
  - **Americas**
  - **Asia**
  - **Europe**
- Leading Sunglass Manufacturers Globally
- Premium Sunglass Brands
- Premium Sports Brands
- Leading Safety and Military Organizations



Many customers use SDC products exclusively.



## Multiple Industry Leading Eyewear Solutions

### Benefits

- CrystalCoat® provides durability to all types of plastic, plastic films, glass, metal and metalized parts

### Features

- Superior Optical Clarity
- Premium anti-fog, abrasion, chemical impact and scratch resistance
- Water-washable hard coatings and films
- Weatherable and UV-protection
- Anti-Reflective and Ultra-Hydrophobic
- Index-Matched (Mid and High)
- Tintable and Non-Tintable
- Primer and Primerless

### Eyewear Lens Applications

- High-Index lenses such as MR™ Series (MR-8, MR-7, MR-10, MR-174)
- CR-39® & RAV 7®, RAVolution®, and Trivex®
- Acrylic, polycarbonate, polyamide and other plastics
- Polarized, photochromic and tinted
- Compatibility with AR, tinted and metalized treatments

CrystalCoat® is a registered trademark of SDC Technologies, Inc.  
MR-8™, MR-7™, MR-10™ and MR-174™ are trademarks, and RAV 7® and RAVolution® are registered trademarks of Mitsui Chemicals, Inc.  
CR-39® and Trivex® are registered trademarks of PPG.

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# *CrystalCoat*<sup>®</sup> Products

Formable, Index-Matched, Multi-Purpose, Photochromic, Primerless,  
Solvent-Free, Tintable, UV-Cure & Weatherable

A photograph of several glass beakers and test tubes on a laboratory bench. A pipette is shown dispensing a drop of liquid into one of the beakers. The scene is lit with a cool, blue light, creating a professional and scientific atmosphere.

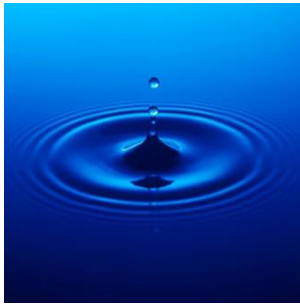
37 YEARS OF PRODUCT INNOVATION

# Abrasion Resistant Coatings

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## Premium High Performance

Enhancing the World's Most Prestigious Brands



**Coating Solutions**



**Substrate Applications**



**Custom Development**

THE RECOGNIZED GLOBAL LEADER



# Why are SDC Coatings Unique?



## Pioneers of Innovation

SDC was the first to use nanoparticles to develop Sol-Gel coatings

- Provides a hard, glass-like surface

Outperforms conventional coatings and paints

- Exceptional optical quality
- Superior abrasion resistance
- Highly durable and chemical resistance

Why Customers choose SDC

- Product quality and performance superior
- Delivery of customized product solutions
- Application expertise and customer support
- Ongoing technology development and product improvements



## Easy Integration with Operations

- Enhanced product performance, utility, appearance and exception quality
- Environmentally friendly UV-cure, water-based, low VOC, solvent-free (100% solids) options available
- Easy to use and highly stable products
- Products can easily be integrated into coating operations, requiring no pre-mixing
- Long product service life is cost-effective, reducing the need for frequent tank change-outs
- Availability globally, multi-substrate compatible coating solutions streamline manufacturing, dramatically improving yields and profitability
- Access to SDC's global technical support team for all product validation and application requirements



## Innovative Product Solutions



- Superior optical clarity
- Premium abrasion, chemical, impact, and scratch resistance
  - **Best-in-class Bayer results**
- Good adhesion to a variety of substrates
- Anti-Reflective and compatibility with mirror and metalizing lens treatments
- Excellent environmental durability including QUV
- Meets European and American safety standards (ANSI Z87.1-2003, EN 166K, EN166N, EN166UV)
- Formable, flexible and tintable
- Excellent anti-fog, hydrophilic water sheeting and hydrophobic easy-clean properties
- High-index matched as well as medium hard coating options
- Primer and primerless, thermal and UV-cure



## Superior Optical Clarity for Multiple Applications

- Acrylic
- Aluminum and other non-ferrous metals
- CR-39<sup>®</sup> & RAV 7<sup>®</sup>
- Glass
- High-Index lenses, MR<sup>™</sup> Series MR-8<sup>™</sup>, MR-7<sup>™</sup>, MR-10<sup>™</sup> & R-174<sup>™</sup>
- PET Film & Sheet
- Polyamide (Optical Nylon)
- Polycarbonate and other Plastics
- RAVolution<sup>®</sup> and Trivex<sup>®</sup>
- Specialty Polymers
- Stainless Steel
- Tritan<sup>™</sup>



## Multiple Coating Applications



- Cast Resins
- Fabricated Plastics, Metal & Glass
- Plastic Film
- Forged & Non-Ferrous Metals
- Injection Molded Plastics
- Plastic, Metal & Glass Sheet
- 3D Technology for complex shapes & large area surface components



# Coating Application Methods



## Dip

- Two-sided coating provides high throughput and the ability to maintain thickness control
- Ideal for lenses and small parts

## CVD

- Chemical Vapor Deposition Thin Film technology (wafer thin substrate)
- For producing high performance solid materials for semiconductors

## Flow

- Effective for large or uniquely shaped parts
- Well suited for plastic sheeting and large shapes

## PVD

- Physical Vapor Deposition optical layer system, functional finishing materials
- Well suited for digital printers & progressive lenses

## Roll-to-Roll

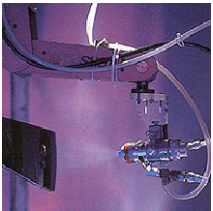
- One-sided coating, ideal for UV-cure coatings
- Ideal, continuous process for films and sheets

## 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





## Thermal/UV-Cure Coatings and Primers

### Our Most Popular CrystalCoat® Products

- Formable Coatings
- Index-Matched Coatings
- Multi-Purpose Coatings
- Primerless Coatings for PC
- Solvent-Free (100% Solids) Coatings
- Tintable Coatings
- UV-Cure Coatings
- Weatherable Coating System

**CrystalCoat™**



CrystalCoat® is a registered trademark of SDC Technologies, Inc.



## Exceptional Abrasion Resistance & Optical Clarity

### Features

- Excellent abrasion, chemical, impact and scratch resistance
- Optically clear, provides exceptional adhesion to multiple substrates
- Formable and flexible
- Tintable at room temperature
- Easy to use, does not require pre-mixing, available in primer-free options for PC
- Long service life, can be easily integrated into your coating operations

### Substrate Materials

- Acrylic
- CR-39®
- Glass (Primer Recommended)
- Polyamide (Optical Nylon)
- Polycarbonate (PC)
- Polyester (PET) Film & Other Plastics

MR-8™, MR-7™, MR-10™, MR-174™ are trademarks of Mitsui Chemicals, Inc. RAV 7® and RAVolution® are registered trademarks of Acomon AG. Acomon AG is a wholly-owned subsidiary of Mitsui Chemicals. CR-39® and Trivex® are registered trademarks of PPG.



# Index-Matched Product Suite



## High-Index Eyewear Enhanced by High-Performance Chemistry



### Features

- CrystalCoat® is the best high-index coating on the market, considered the world's leader
- Optically clear, provides exceptional adhesion to multiple substrates
- Capable of performing in the most demanding environments
- Excellent abrasion, chemical, and impact resistance, delivering best-in-class Bayer results
- Easy to use, does not require pre-mixing, available in spin or dip, primer or primer-free options
- Long service life, can be easily integrated into your coating operations

### Substrate Materials

- Acrylic
- CR-39®
- High-Index lenses MR™ Series MR-8™, MR-7™, MR-10™ & R-174™

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CR-39® and Trivex® are registered trademarks of PPG.



## Exceptional Abrasion Resistance Accelerated Performance

### Features

- Multi-purpose products provides exceptional adhesion to multiple substrates with exceptional tintability
- Weatherable durability capable of performing in the most demanding environments
- Excellent abrasion, chemical, and impact resistance, delivering premium Bayer results
- Available in dip, flow or spin, primer or primer-free, thermal and UV-cure options
- Long service life, can be easily integrated into your coating operations, does not require pre-mixing

### Applications

- Ideally suited for ophthalmic, sunglass, sports, military and safety eyewear where optical clarity and high durability are required
- Also suitable for aerospace, automotive and transit glazing as well as electronic devices

### Substrate Materials

- Acrylic
- CR-39® and RAV 7®
- High-Index lenses MR™Series MR-8™, MR-7™, MR-10™ & R-174™
- Polyamide (Optical Nylon)
- Polycarbonate and other Plastics
- RAVolution® and Trivex®

# Photochromic Product Suite



Light Reactive  
High-Performance Clarity

## Features

- Exceptional Optical Clarity
- Fast Darkening and Fading Speed
- Dip Coat and Thermal Cure Process
- Compatible with Anti-Reflective Metallizing Treatments
- Suitable for Gray and Brown Photochromic Colors
- Abrasion and Chemical Resistance

## Applications

- Ophthalmic, sunglass, sports, military and safety eyewear

## Substrate Materials

- Suitable for All Lens Materials



## Exceptional Durability, Premium Abrasion Resistance

### Features

- Primerless (or primer-free) adhesion to acrylic and polycarbonate
- Premium abrasion and chemical resistance
- Flexibility, compatible with A/R, mirror and metalizing treatments
- Thermal cure, available in dip or spin application

### Applications

- Ideally suited for ophthalmic, sunglass, sports, military, and safety eyewear where optical clarity and high durability are required
- Also suitable for aerospace, automotive and transit glazing as well as electronic displays



## Environmentally Sustainable Coating

### Features

- High performance solvent-free, 100% solids coatings are efficient and environmentally friendly
- Premium abrasion and chemical resistance
- Compatible with A/R, mirror, and metalizing treatments
- Non-flammable
- Improved adhesion

### Performance Benefits

- Highly stable, delivers premium Bayer results
- Contains virtually no VOCs hazardous air pollutants or toxic release compounds for a cleaner/safer work environment
- Rapid UV-Cure:
  - Accelerated curing increases production speed
  - Reduces scrap and waste as well as regulatory requirements
  - Lowers energy, application, and overall operational cost
  - Does not emit harmful toxic gases during the evaporation process

### Substrate Materials

- Acrylic
- CR-39® & RAV 7®
- Glass
- Polycarbonate (PC)



## Fast Tint Technology Extraordinary Performance



### Features

- Tintable coat products provide adhesion to multiple substrates with exceptional accelerated tintability
- Weatherable UV durability capable of performing in the most demanding environments
- Premium abrasion and chemical resistance
- Available for dip or spin applications
- Compatible with AR, mirror, and metalizing treatments
- Long service life, can be easily integrated into your coating operations, does not require pre-mixing

### Applications

- Ideally suited for ophthalmic, sunglass, sports, military, and safety eyewear where optical clarity and high durability are required

### Substrate Materials

- Acrylic
- CR-39® and RAV 7®
- High-Index lenses MR™ Series MR-8™, MR-7™, MR-10™ & R-174™
- Polyamide (Optical Nylon)
- Polycarbonate and other Plastics
- RAVolution® and Trivex®

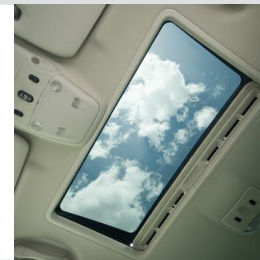
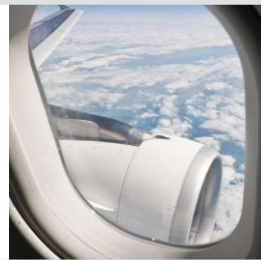
# Weatherable Coating System



## Exceptional UV Protection & Outdoor Durability



- Electronic Displays: Tablets, Phones, Computers, TVs
- Lighting & Mirrors for Multiple Applications
- Transit: Commercial, Industrial and Recreational Vehicles such as Automotive, Aerospace, Bus, Industrial & Commercial, Marine, Motorcycle, Rail





## High-Performance Solutions for Transit & Electronics

### Transit Applications

- Airplane, bus, car and rail windows and mirrors
- Automotive sunroofs, aerospace cockpit canopies
- Motorcycle and automotive windscreens
- Instrument panels, displays, and gauges
- LED lighting for commercial, industrial and recreational vehicles



### Electronic Device Applications

- PDAs, digital readers
- Desktop, laptop, tablet and mobile computers
- Portable multi-purpose Internet communications/media devices (i.e. iPad)
- Mobile and Smartphone windows and casings
- LCD and plasma screens
- Cameras and plastic watch crystals







## Environmentally Friendly Abrasion & Chemical Resistance

### Markets Served

- Architectural & Building
- Automotive & Transit
- Aviation & Aerospace
- Optics, Ophthalmic, Medical, Safety & Sports Eyewear



### Features

- Exceptional Abrasion & Chemical Resistance
- Outstanding Optical Clarity



### Available Options

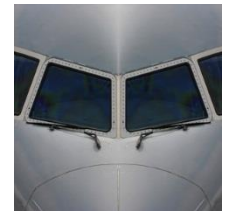
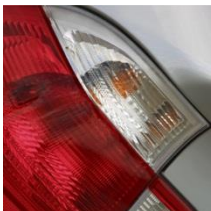
- Environmentally Conscious UV Light, Fast Curing
- Dip, Flow & Spray Coat Compatible



## Accelerates Outdoor Durability

### Coating Features & Benefits

- Superior optical clarity, exceptional adhesion to PC
- Excellent abrasion and scratch resistance
- Weatherable, outdoor durability and UV-protection
- Ultra-hydrophobic, easy-clean



### Available Options

- Thermal Cure
- Two-Part Coating & Primer System
- Flow Coat Compatible

THE RECOGNIZED GLOBAL LEADER

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# Technical

## Service & Support

A photograph of several glass beakers and test tubes arranged on a surface. A pipette is positioned over one of the beakers, with a single drop of liquid about to fall into it. The scene is lit with a cool, blue light, creating a professional and scientific atmosphere.

37 YEARS OF PRODUCT INNOVATION



## Strategic Development Partner

### Technical Support

- Your strategic development partner focused on continuous quality improvement
- Localized technical support teams backed by central R&D department accelerates product development
- Extensive product portfolio and complementary technology available through parent Mitsui Chemicals and affiliate companies allows to deliver a complete solution while taking advantage of a larger cost-effective supply network.

### Customer Care

- Dedicated to world-class operations and global customer relationships
- Committed to delivering uncompromising service, exceeding customer expectations

THE RECOGNIZED GLOBAL LEADER

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# Summary

## Strategic Product Development

A photograph of laboratory glassware, including several test tubes and a pipette, arranged on a surface. The image is partially obscured by a blue curved banner.

37 YEARS OF PRODUCT INNOVATION



## Why Choose SDC?

- Long and successful record of continuous growth through technical innovation
- Comprehensive portfolio with hundreds of patented premium coatings for multiple applications
- Trusted Advisor Program
  - Partnership founded on creating business value through quality and technical innovation
  - Serves as an extension of your product development team to ensure quality performance and yields
- SDC'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 resistance to abrasion, chemicals, fingerprints, fog, impact, oil, scratches, static, and water
  - Exceptional optical clarity and environmental durability
- Global Manufacturing Capacity
  - Closely aligned to our global customers to deliver product, service, and support 24x7
  - ISO 9001: 2015 quality certified





What we can do together is  
boundless

## Product Development Support

- Enhance your products' performance and brand image
- Leverage SDC's proprietary, patented technology
- Rely on consistent, certified products
- Access global JIT (Just-in-Time) delivery and support

## Support Partnership for your Products

- Evaluation
- Qualification
- Implementation
- Commercialization
- Future development strategies







# SDC

Technologies

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

37 YEARS OF PRODUCT INNOVATION