

Coatings for Automotive Applications

Enabling Plastics, Enabling Innovation

Momentive Coatings for Automotive Applications

Momentive Coatings help our customers meet performance and design requirements for a variety of automotive applications. Our portfolio includes thermal and UV cured hardcoats, anti-fog coatings and weatherstrip coatings.

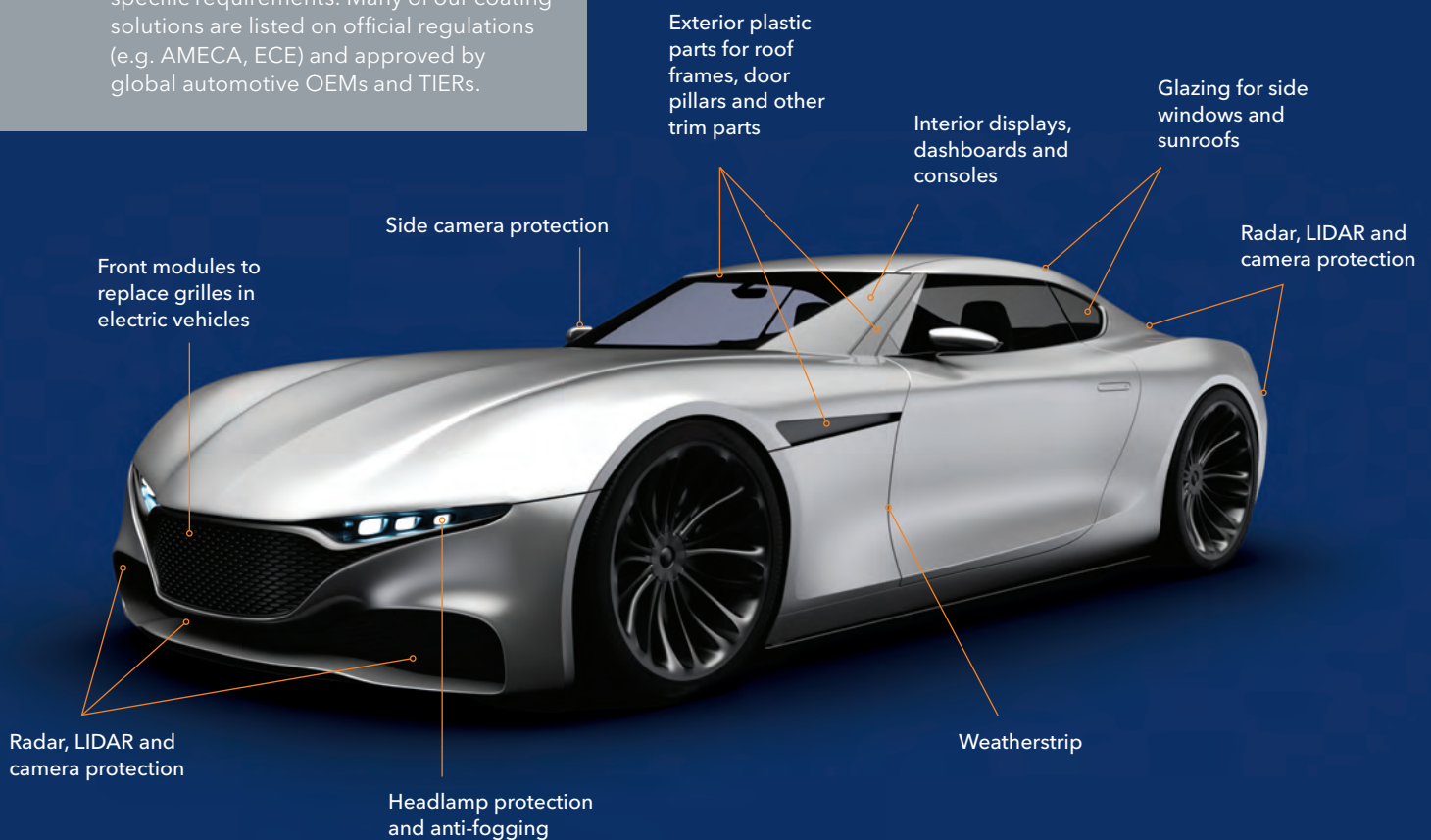
SiIFORT* Hardcoats enable automobile manufacturers to replace glass and metal with lightweight plastics for demanding lighting, glazing, exterior trim, sensor cover, interior, and new front module applications. They improve the durability and performance of plastics, such as polycarbonate and PMMA, by helping them maintain their color, gloss, light transmission and other physical properties, while enhancing weatherability, cleanability and resistance to abrasion, chemicals and solvents.

SiIFORT TAC2000 anti-fog coating prevents the formation of condensation on the inside of headlamp lenses, sensor covers and new front modules. Our weatherstrip coatings provide excellent noise reduction, abrasion resistance and weathering resistance on EPDM rubber profiles for door and roof frame sealing applications.

Automotive Approvals

We offer unique solutions for customer specific requirements. Many of our coating solutions are listed on official regulations (e.g. AMECA, ECE) and approved by global automotive OEMs and TIERS.

Typical automotive coating applications:





Headlamps

Thermal and UV cured hardcoats for exterior protection; thermal cured anti-fog coatings to prevent condensation on the interior of the headlamp

Key Features and Typical Benefits:

- Long-term weatherability
- High scratch and abrasion resistance
- Superior chemical resistance

Key Products:

- SiLFORT® UVHC3000(K) hardcoat
- SiLFORT UVHC5000 hardcoat
- SiLFORT PHC587C(2) hardcoat
- SiLFORT TAC2000 anti-fog

Glazing

Thermal cured hardcoats for side window and sunroof applications

Key Features and Typical Benefits:

- Long-term weatherability
- High abrasion resistance
- Superior chemical resistance

Key Products:

- SiLFORT AS4700 hardcoat
- SiLFORT XH100P hardcoat

LIDAR & Radar Sensors

Thermal or UV cured hardcoats for protecting sensor covers; thermal cured anti-fog coatings to prevent condensation on the interior of the cover

Key Features and Typical Benefits:

- Enhanced signal transmission and transparency
- Long-term weatherability
- High scratch and abrasion resistance

Key Products:

- SiLFORT AS4700(F) hardcoat
- SiLFORT PHC587C(2) hardcoat
- SiLFORT UVHC5000 hardcoat
- SiLFORT TAC2000 anti-fog

Interior Parts

Thermal or UV cured hardcoats for protecting plastic parts, including displays, dashboards and consoles

Key Features and Typical Benefits:

- High scratch and abrasion resistance
- Superior chemical resistance

Key Products:

- SiLFORT UVHC3000(K) hardcoat
- SiLFORT UVHC7300 hardcoat
- SiLFORT UVHC7400 hardcoat
- SiLFORT PHC587B hardcoat

Exterior Parts

Thermal and UV cured hardcoats for protecting exterior parts, including roof frames, door pillars, front modules and other trim components

Key Features and Typical Benefits:

- Long-term weatherability
- High scratch and abrasion resistance
- Superior chemical resistance

Key Products:

- SiLFORT AS4700(F) hardcoat
- SiLFORT PHC587C(2) hardcoat
- SiLFORT UVHC5000 hardcoat

Weatherstrip

Thermal cured coatings for EPDM rubber profiles on dynamic door and roof seals

Key Features and Typical Benefits:

- High noise reduction
- Long-term weatherability
- High abrasion resistance

Key Products:

- WSC1068 weatherstrip coating
- WSC4009 weatherstrip coating
- WSC4029 weatherstrip coating
- WSC4049 weatherstrip coating



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Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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