**Application Concept**

**Market:** Passenger Rail  
**Application Description:** Long-term abrasion and corrosion resistance to protect exterior surfaces of passenger trains, including the end, skirts and roof.

**Key Application Requirements**  
Film needs to hold reliably to a variety of surfaces, such as glass, steel, aluminum and painted metals. Needs to be long lasting, conformable and easy to install. Film should resist UV rays and create minimal change in surface appearance, even over extended periods of time.

**Product or Process Replaced**  
Protective paints, coatings and/or vinyl films.

**Benefits/Advantages to Customer**  
*Engineered for durability:*  
Resists damage from abrasion—commonly caused by rocks, tree branches and other debris—chemicals, tears, punctures and galvanic corrosion. Maintains a smooth, long-lasting surface on train exteriors including high-visibility areas.

*Excellent backing transparency:*  
Allows for surface protection with minimal distortion of surface design and/or printed information beneath film.

*Easy-release paper liner:*  
Enables die cutting for simple, streamlined application during or after manufacture.

*Fully compatible with most paints:*  
Seamlessly applies over painted surfaces or can easily be painted.

*UV resistant:*  
Withstands outdoor conditions.

**PRODUCT**

**Flat and Curved Surfaces**
- 3M™ Industrial Protective Film 7070UV
- 3M™ Industrial Protective Film 7071UV

**Thermoformable for Complex Surfaces**
- 3M™ Polyurethane Protective Tape 8673
- 3M™ Polyurethane Protective Tape 8674

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*3M Industrial Adhesives and Tapes Division*
Related Applications
Surface protection on:

Delivery Trucks  Emergency Vehicles  Buses

Related Products
3M™ Temporary Surface Protection Tapes
3M™ Scotchgard™ Multi-Layer Protective Film

Key Decision Makers
Design Engineers, Quality Control Managers, Production Supervisors/Managers

For Additional Information

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