Aircraft Flight Surface Protection Solution

SOLUTION PROFILE - Aircraft Flap and Spoiler Lower Surface Protection

Process/Shop: Airlines that own or operate 737 and DC-9 aircraft.

Key Issues: Impact damage

Application Attribute: Installing 3M™ Polyurethane Protective Tape 8641 on inboard flap and spoiler lower surfaces helps prevent dents and delamination caused by foreign object damage (FOD).

PRODUCT SOLUTION

Excellent Impact Protection: Polyurethane Protective Tape 8641 protects composite structures from dents and delamination caused by FOD.

Fast and Easy Application: Polyurethane Protective Tape 8641 is easy to install. It has strength and body, which allows it to be easily unrolled and handled without tearing. Prepare surface by scuffing with fine abrasive and cleaning with Isopropyl alcohol. Apply Adhesion Promoter 86A to the perimeter of the flight surface. Peel a protective liner from the adhesive side of the tape, and apply the tape directly onto the flap, spoiler or flight surface to be protected. Complete installation by edge sealing the tape with 3M™ Scotch-Weld™ DP-190.

Conformable Product: Polyurethane Protective Tape 8641 conforms to rivets and surfaces to provide a smooth paint like appearance. It readily accepts paint for custom color applications with proper preparation procedures.

KEY BENEFITS

3M™ Polyurethane Protective Tape 8641 70-0001-1490-3 N/A
3M™ Adhesion Promoter 86A 70-0707-4280-7 0 00 21200 315923
3M™ Scotch-Weld™ Epoxy Adhesive DP-190 62-3553-1435-2 0 00 21200 226472

KEY ADVANTAGES

Pressurized Surface Application: Perforated Polyurethane Protective Tape 8641 can be installed on pressurized surfaces for impact protection.

Durable Product: Polyurethane Protective Tape 8641 provides a unique combination of high strength, impact, puncture and abrasion resistance.

Military History: Polyurethane Protective Tape 8641 has been used for several years on U.S. Military transport aircraft under the most demanding conditions. It has provided impact protection while operating on unimproved runways around the world.

Helps Reduce Maintenance Costs: Polyurethane Protective Tape 8641 has been proven to significantly reduce dents and delamination on aircraft flight surfaces.
3M AIRCRAFT FLAP AND SPOILER LOWER SURFACE PROTECTION

SOLUTIONS FOR SURFACE PROTECTION

Reduce Expensive Repairs on composite and metal skin with composite core flight surfaces.

Adhesion to Structure: Polyurethane Protective Tape maintains adhesion to flight surfaces.

Fast and Easy Application: Polyurethane Protective Tape provides high strength, long service life and impact resistance.

Available Colors: Polyurethane Protective Tape 8641 is available in gray, white, and black; and can be painted to match the livery of choice.

Standard Inspection Techniques may be performed while film is in place.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-235-AERO (800-235-2376).

Address correspondence to: 3M Aerospace and Aircraft Maintenance Division, 3M Center, Building 223-1N-14, St. Paul, MN 55144-1000.

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For Additional Product Safety and Health Info.

See Material Safety Data Sheet.

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