



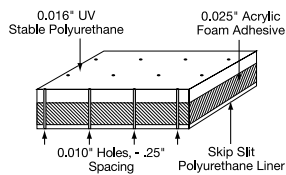
Surface Protection Applications for the C-130

- Process/Shop:** Exterior Protection/Corrosion Shop/Paint Shop
- Key Issues:** Corrosion, erosion and foreign object damage (FOD) management
- Application Attribute:** Helps reduce rain and sand erosion damage and provides protection from FOD. Significantly reduces FOD costs and extends service life.



U.S. Air Force photo by Senior Airman Aaron D. Allmon II

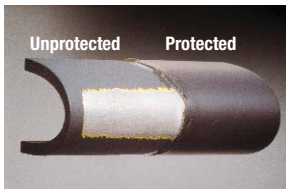
PRODUCT SOLUTION



- 3M™ Polyurethane Protective Tape 8641
- 3M™ Polyurethane Protective Tape 8681HS
- 3M™ Polyurethane Protective Boots
- 3M™ Adhesion Promoter 86A
- 3M™ Scotch-Weld™ Epoxy Adhesive DP-190

Simple tools are required for installation of 3M™ Polyurethane Protective Tapes and 3M™ Polyurethane Protective Boots.

KEY BENEFITS



Excellent Impact Protection: Polyurethane Protective Tapes and Boots applied over the aircraft belly, leading edges, radomes, antennas and propeller tips provide an excellent barrier to FOD and abrasion damage.

Fast, Safe, and Easy Application: Polyurethane Protective Tapes and Boots have strength and body which allow them to be easily handled without tearing and do not contain hazardous chemicals. Application is achieved by removing a protective liner from the adhesive side of the tape and applying the tape directly onto the prepared surface.

Erosion Protection: Polyurethane Protective Tapes and Boots applied in this application have been demonstrated to prevent erosion and corrosion caused by FOD and reduces maintenance costs.

KEY ADVANTAGES



Forms a Tough, Durable Barrier: Polyurethane Protective Tapes and Boots have been exposed to a wide range of UV, fluids and performance testing. They provide a unique combination of high strength abrasion resistance and conformability necessary to perform in this application.

Replaces Polyester Film and Similar Materials: Polyurethane Protective Tapes and Boots have been designed and specified by commercial and military aircraft OEMs to resolve performance problems observed with other alternative materials and techniques previously used including vinyl tapes, polyester films and other sealing materials.

3M SURFACE PROTECTION APPLICATIONS

RELATED GOVERNMENT REGULATORY, INDUSTRY SPECIFICATIONS AND EXPERIENCE:

TECHNICAL ORDERS 1C-130H-2-00GE-00-1 1-1-8

3M™ Polyurethane Protective Tapes and 3M™ Polyurethane Protective Boots are used by military organizations to minimize corrosion, erosion and FOD on the following locations: belly protection, ADF antenna, SKE domes, props, engine inlets, prop spinner, air conditioning inlets, rudder and elevator balance weights, TACAN antenna, compass sail, AAR-44, UHF/VHF antenna, radomes, sub detector pod, ALR 69, blade antennas, nose gear door, landing gear door pods (front & rear) and verticle and horizontal stabilizer leading edges.

SOLUTIONS TO AIRCRAFT IMPACT DAMAGE

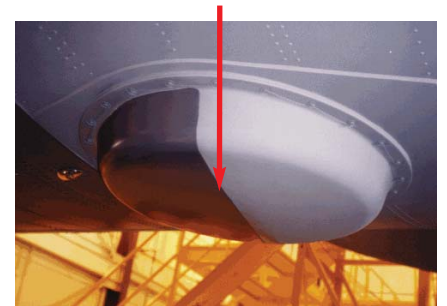


Adhesion to structure: Polyurethane Protective Tapes and Boots maintain excellent adhesion to the surface structure, sealants and raised features to form a continuous barrier.

Fast and easy impact damage application: Polyurethane Protective Tapes and Boots provide an effective high-strength, tough, light weight, abrasion resistant barrier that is fast and easy to apply.

Boots for prop blades and engine inlets: Polyurethane Protective Tapes and Boots securely protect blade tips as well as engine inlets from wind and rain erosion.

FP-80 SKE Dome Boot



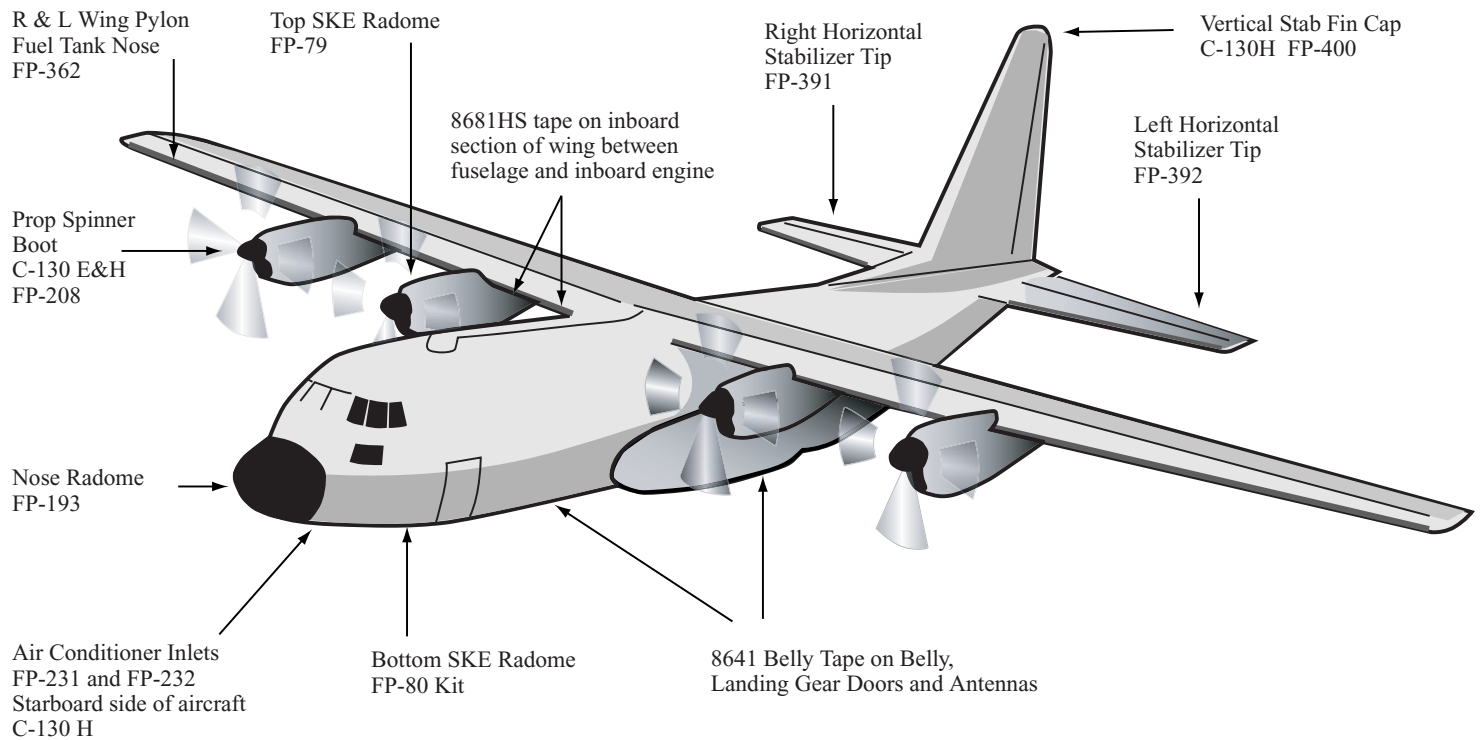
POLYURETHANE PROTECTIVE BOOTS

Description	Boot#	Color	1 per pack	5 per pack	Pkg
ADF Antenna	FP-59	Clear	70-0702-8918-9	70-0702-8919-7	Carton
SKE Dome, Top	FP-79	Clear	70-0703-2213-9	70-0703-2214-7	Carton
SKE Dome, Top	FP-79	36118 Dark Gray	70-0703-3083-5	70-0703-3084-3	Carton
SKE Dome, Top	FP-79	36173 Med Dark Gray	70-0709-1490-1	70-0709-1491-9	Carton
SKE Dome, Bottom	FP-80A	36173 Med Dark Gray	70-0707-5278-0	70-0707-5277-2	Carton
Prop (Hamilton-Standard PN A7111D2), Except "J" Model	FP-192	Clear	70-0706-6272-4	70-0706-6273-2	Tube
Radome	FP-193	Clear	70-0706-6274-0	70-0706-6275-7	Carton
Radome	FP-193	36118	70-0707-5193-1	70-0707-5194-9	Carton
Engine Inlet (E & H Model)	FP-207	Clear	70-0707-4023-1	70-0707-4024-9	Carton
Prop Spinner (E & H Model)	FP-208	Clear	70-0707-4025-6	70-0707-4026-4	Carton
Air Conditioner, Small Inlet (H Model)	FP-231	36118 Dark Gray	70-0707-5007-3	70-0707-5006-5	Carton
Air Conditioner, Small Inlet (H Model)	FP-231	Clear	70-0709-1393-7	70-0709-1394-5	Carton
Air Conditioner, Small Inlet (H Model)	FP-231	36173 Med Dark Gray	70-0709-1492-7	70-0709-1493-5	Carton
Air Conditioner, Small Inlet (H Model)	FP-231	36320	70-0709-1564-3	70-0709-1565-0	Carton
Air Conditioner, Large Inlet (H Model)	FP-232	Clear	70-0709-1395-2	70-0709-1396-0	Carton
Air Conditioner, Large Inlet (H Model)	FP-232	36118 Dark Gray	70-0707-5005-7	70-0707-5004-0	Carton
Air Conditioner, Large Inlet (H Model)	FP-232	36173 Med Dark Gray	70-0709-1494-3	70-0709-1495-0	Carton
Air Conditioner, Large Inlet (H Model)	FP-232	36320 Med Lt Gray	70-0709-1566-8	70-0709-1567-6	Carton
US Coast Guard Sub Detector Pod	FP-233	Clear	70-0707-4999-2	70-0707-5000-8	Carton
ARC-164 UHF Antenna	FP-238	36320 Med Lt Gray	70-0707-5035-4	70-0707-5034-7	Carton
ALR-69 Antenna System (4 up mold)	FP-239	Matte Black	70-0707-5033-9	70-0707-5038-8	Carton
Rudder Balance WT	FP-278	36118 Dark Gray	70-0707-5151-9	70-0707-5152-7	Carton
Rudder Balance WT	FP-278	36173 Med Dark Gray	70-0709-1512-9	70-0709-1513-0	Carton

3M SURFACE PROTECTION APPLICATIONS

POLYURETHANE PROTECTIVE BOOTS					
Description	Boot#	Color	1 per pack	5 per pack	Pkg
Elevator Balance WT	FP-279	36118 Dark Gray	70-0707-5150-1	70-0707-5149-3	Carton
Elevator Balance WT	FP-279	36173 Med Dark Gray	70-0709-1514-8	70-0709-1515-5	Carton
APR-46 (Top Hat) Antenna	FP-284	36173 Med Dark Gray	70-0707-5205-3	70-0707-5206-1	Carton
TACAN #1 Antenna	FP-285	36320 Med Lt Gray	70-0707-5207-9	70-0707-5208-7	Carton
TACAN 2334 (Small) Antenna	FP-286	36320 Med Lt Gray	70-0707-5209-5	70-0707-5210-3	Carton
Compass Sail (AS3262)	FP-287	36173 Med Dark Gray	70-0707-5211-1	70-0707-5212-9	Carton
AAR-44	FP-288	36173 Med Dark Gray	70-0707-5213-7	70-0707-5214-5	Carton
Lowband Antenna (UHF/VHF)	FP-289	36320 Med Lt Gray	70-0707-5215-2	70-0707-5216-0	Carton
Lowband Antenna (UHF/VHF)	FP-289	36173 Med Dark Gray	70-0709-1496-8	70-0709-1497-6	Carton
VHF-1 Antenna Blade, #35	FP-290	36320 Med Lt Gray	70-0707-5217-8	70-0707-5218-6	Carton
VHF-1 Antenna Blade, #35	FP-290	36173 Med Dark Gray	70-0709-1498-4	70-0709-1499-2	Carton
Small Blade Antenna (USCG)	FP-292	36173 Med Dark Gray	70-0707-5241-8	70-0707-5238-4	Carton
SKE Omni Antenna (USCG)	FP-293	36173 Med Dark Gray	70-0707-5239-2	70-0707-5240-0	Carton
Wing Pylon Fuel Tank (All Models)	FP-362	Clear	70-0709-1391-1	70-0709-1392-9	Carton
Wing Pylon Fuel Tank (All Models)	FP-362	36320 Med Lt Gray	70-0709-1568-4	70-0709-1569-2	Carton
VHF-FM Antenna # S-65-8280-4	FP-366-1	36173 Med Dark Gray	70-0709-1409-1	70-0709-1410-9	Carton
Left Flare Air Deflector Fairing (H Model)	FP-384	Clear	70-0709-1439-8	70-0709-1440-6	Carton
Right Flare Air Deflector Fairing (H Model)	FP-385	Clear	70-0709-1441-4	70-0709-1442-2	Carton
Left Wing Tip (H Model)	FP-389	36173 Med Dark Gray	70-0709-1448-9	70-0709-1449-7	Carton
Right Wing Tip (H Model)	FP-390	36173 Med Dark Gray	70-0709-1452-1	70-0709-1453-9	Carton
Right Horizontal Stabilizer Tip (H Model)	FP-391	36173 Med Dark Gray	70-0709-1454-7	70-0709-1455-4	Carton
Left Horizontal Stabilizer Tip (H Model)	FP-392	36173 Med Dark Gray	70-0709-1456-2	70-0709-1457-0	Carton
Vertical Stabilizer Fin Cap (H Model) 3	FP-400		70-0709-1474-5	70-0709-1475-2	Carton
POLYURETHANE PROTECTIVE TAPES					
3M™ Polyurethane Protective Tape 8641 Custom Sized; Perforated		36118 Gray	70-0000-6969-3		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Non-Perforated		36118 Gray	70-0000-7091-5		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Perforated		36173 Gray	70-0001-1489-5		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Non-Perforated		36173 Gray	70-0001-1490-3		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Perforated		White	70-0001-1508-2		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Non-Perforated		White	70-0001-1507-4		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Non-Perforated		Matte Black	70-0000-7092-3		
3M™ Polyurethane Protective Tape 8641 Custom Sized; Perforated		Matte Black	70-0000-6979-2		
3M™ Coating Repair Kit 8999K10			70-0063-5109-5		
OTHER PRODUCTS					
3M™ Scotch-Weld™ Epoxy Adhesive DP-190 1.7 fl oz; 12 per carton		Gray	62-3553-1435-2		
3M™ Adhesion Promoter 86A; 1 pt; 12 per carton		Clear	70-0707-4280-7		
3M™ Adhesion Promoter 86A Wipes; 5 per pack		Clear	70-2022-7012-3		
3M™ Scotch-Weld™ EPX™ Mixing Nozzle 9742, 50 ml; 72 per carton			62-9742-9935-6		
3M™ Scotch-Weld™ EPX™ Plus II Applicator 50 ml - 1:1 ratio; 10 per carton			62-9170-9930-1		
3M™ Scotch-Weld™ EPX™ Plus II Mixing Nozzle 50ml; 72 per case			62-9171-9153-8		

3M SURFACE PROTECTION APPLICATIONS



For Additional Information

To request additional product information, call toll free 1-800-235-AERO (1-800-235-2376). Address correspondence to: 3M Aerospace and Aircraft Maintenance Division, 3M Center, Building 220-9W-14, St. Paul, MN 55144-1000.

Military Customers

To order 3M products, please call 1-866-556-5714 or 651-575-6688. The fax number is 651-737-4380.

Important Notices

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Limitation of Remedies And Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

For Additional Product Safety and Health Information, see the Material Safety Datasheet.



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