

3M™ Polyurethane Protective Tapes for Rotor Blade Protection

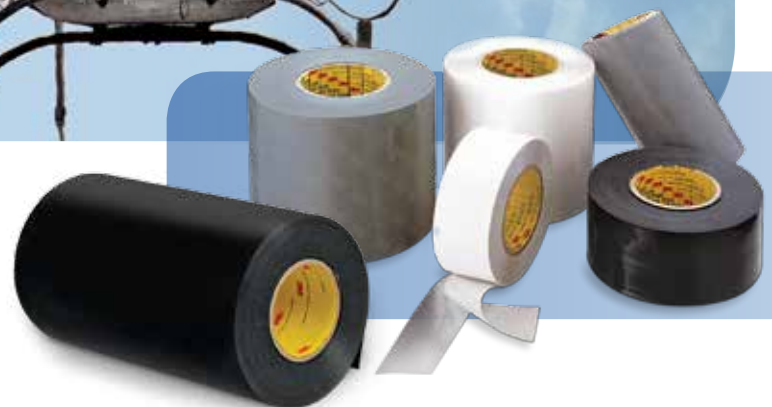
Keep your Edge

High performance protective tapes reduce erosion damage and downtime

3M™ Polyurethane Protective Tapes provide a cost-effective way to help prevent structural damage to helicopter rotor blades with minimal effect on blade track and balance. These tapes can significantly reduce rain and sand erosion damage ... Foreign Object Damage (FOD) ... life cycle costs and helicopter downtime.

3M Polyurethane Protective Tapes have been designed for and specified by commercial and military helicopter OEMs because of their superior performance over alternative materials and techniques previously used, including paint and other polymeric films.

3M Polyurethane Protective Tapes form a continuous barrier that maintains excellent adhesion to the surface structure, including sealants and raised features. These durable tapes demonstrate outstanding resistance to UV degradation and common aviation fluids. They provide a unique combination of high strength, abrasion resistance and conformability to help maximize performance.



Fast, safe and easy application allows field repairs

No special equipment is necessary to apply 3M Polyurethane Protective Tapes. These easy-to-handle tapes are applied using a pressure sensitive “peel and stick” adhesive.

Film-only (non-adhesive) configurations are applied using 3M™ Urethane or Epoxy Structural Adhesives to create a more permanent protective layer.

3M Polyurethane Protective Tapes are chromate-free and contain no hazardous air pollutants (HAPs) or volatile organic compounds (VOCs). They meet U.S. Federal and California regulations for landfillable materials and do not require special hazardous waste disposal.

3M

For information or to order, contact your 3M representative or call

1-866-556-5714
(Government Orders)

Or 1-800-235-2376
(Commercial Orders)

Related Government Regulatory and Industry Specifications

Technical Orders

AH-64, OH-58, UH-60, AH-1, UH-1 and CH-47 are authorized in Army technical bulletin 1-1615-351-23.

CH-53 is authorized in Navy and Marine tech directive.

3M™ Polyurethane Protective Tape				Thickness	Color	3M ID Number
Advanced Leading Edge Erosion Protection	8545NA	–	custom sized	40 mils	Matte Black	70-0001-1475-4
	8545HS	–	custom sized	43 mils	Matte Black	70-0001-2072-8
	8542NA	–	custom sized	20 mils	Matte Black	70-2022-8024-7
	8542HS	–	custom sized	22 mils	Matte Black	70-0001-2073-6
Legacy Leading Edge Erosion Protection	8663HS	skip slit	custom sized	18 mils	Matte Black	70-0000-6236-7
		non-skip slit	custom sized	18 mils	Matte Black	70-0000-6237-5
	8667HS	skip slit	custom sized	28 mils	Matte Black	70-0001-2074-4
		non-skip slit	custom sized	28 mils	Matte Black	70-0000-9484-0
8681HS	skip slit	custom sized	14 mils	Matte Transparent	70-0000-8032-8	
	non-skip slit	custom sized	14 mils	Matte Transparent	70-0000-8099-7	
Non-Leading Edge Erosion Protection	8664NA DL	–	custom sized	4 mils	Matte Black	70-2022-7305-1
	8664HS DL	skip slit	custom sized	6 mils	Matte Black	70-2022-7225-1
		non-skip slit	custom sized	6 mils	Matte Black	70-2022-7303-6
Erosion Resistant Composite Surfacing	8734NA	–	custom sized	6 mils	Matte Black	70-2022-8073-4

Note: NA = Non-Adhesive (film-only), HS = High Shear Pressure Sensitive Adhesive, DL = Dual Liner
For NSN information, contact your 3M representative.

Repair Products	Size	3M ID Number
3M™ Scotch-Weld™ Repair Paste 2110	50 mL	87-2500-0475-8

Post-Installation Edge Sealing Products	Size	Quantity	3M ID Number	NSN
3M™ Scotch-Weld™ Epoxy Adhesive DP-190	1.7 fl oz	12/carton	62-3553-1435-2	8040-01-334-8284
3M™ Scotch-Weld™ EPX™ Mixing Nozzle 9742	50 mL	72/carton	62-9742-9935-6	5120-01-425-1023
3M™ Scotch-Weld™ EPX™ Plus II Applicator	50 mL (1:1 ratio)	10/carton	62-9170-9930-1	5120-01-552-0154
3M™ Scotch-Weld™ EPX™ Plus II Mixing Nozzle	50 mL	72/case	62-9171-9153-8	5120-01-552-0155
3M™ Adhesion Promoter 86A	1 pint	12/carton	70-0707-4280-7	8040-01-450-9187
3M Adhesion Promoter 86A Wipes	–	5/pack	70-2022-7012-3	8040-01-448-4791

Installation Kit	3M ID Number	NSN
3M™ Rotor Blade Protection Kit 8999 K11	70-2022-7197-2	1615-01-529-8073

Designed for the CH-47 Chinook but can potentially be used with other airframes. The kit includes custom cut pieces of 3M™ Polyurethane Protective Tape and application accessories – everything needed for rotor blade protection training or field installation.

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