



# Adhesion Promoter 86A

Technical Datasheet

November 2007

## Product Description

3M™ Adhesion Promoter 86A is a liquid “primer” designed to be used with 3M™ Polyurethane Protective Tapes and Boots and other acrylic adhesives to enhance initial adhesion in demanding situations.

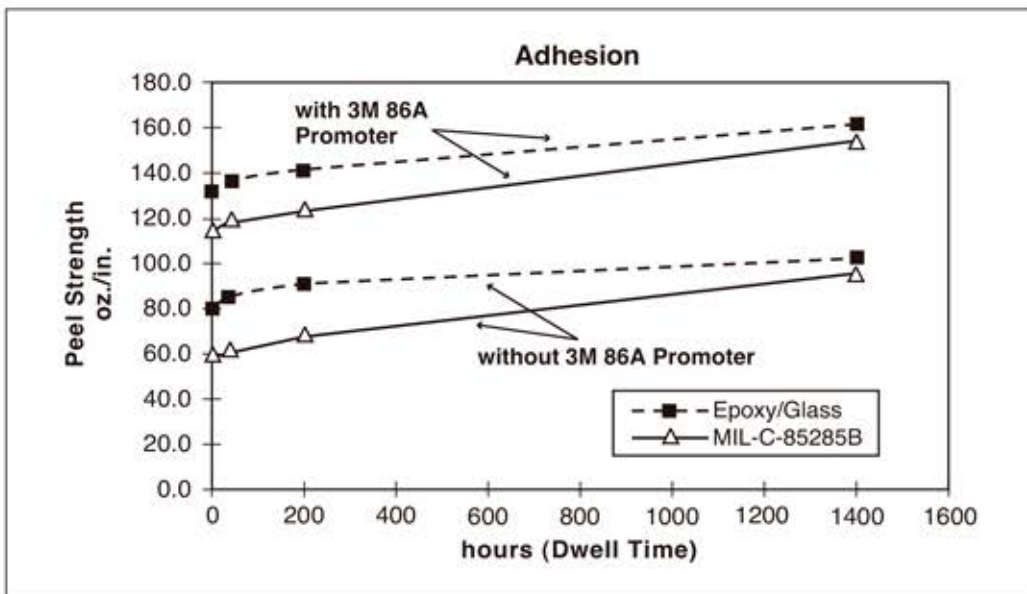
3M 86A promoter is designed to promote faster initial adhesion to certain types of surfaces, such as polyurethane paint, epoxy primers, or epoxy composites. It is not intended for use where the acrylic adhesive would be in direct contact with aluminum, stainless steel, carbon, steel, or glass.



Product:	Pkg:	UPC:	NSN:
7" x 7" wipes	5 packets/bag, 1 bag/case	021200-96361-2	8040-01-448-4791
Product:	Pkg:	UPC:	NSN:
1 pint can	12 pints/case	021200-31592-3	8040-01-450-9187

## Typical Performance Characteristics

3M 86A Promoter allows for faster initial adhesion build rate of 3M™ Polyurethane Protective Tapes and Boots with acrylic adhesives to certain surfaces.



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### Application Use:

**Note: When using solvents, extinguish all ignition sources, including pilot lights. Read and follow manufacturer's warnings and directions for use.**

#### 1) Surface Preparation

The bonding surface must be smooth, clean, dry and free of foreign matter. If necessary, the surface should be sanded to the smoothness attainable with 320 grit sandpaper. Clean the surface with isopropyl alcohol and allow the surface to dry prior to the application of 3M™ Adhesion Promoter 86A.\* Application of 3M Promoter 86A on bare metal surfaces does not appreciably enhance adhesive values. The danger in using 3M Promoter 86A on metal surfaces is that it may transfer to the tape adhesive, if the tape is lifted for repositioning. If this transfer occurs, the adhesive of the protective tape will be compromised.

**Note:** Towels or cloths used in the cleaning process should be untreated and lint free (i.e. - cheesecloth or Kimwipe®).

#### 2) Apply 3M 86A Promoter

Wipe the surface with the pre-saturated 3M 86A Promoter wipe or with cheesecloth wetted with 3M 86A Promoter, using the minimum amount that will coat desired surface. **More is not better.** Allow to dry for 10 minutes. For best results, apply 3M Polyurethane Protective Tape with acrylic adhesive within two hours to the promoted surface.

**Note:** In many applications only the outer most edges of the application area may require use of 3M 86A Promoter.

**Note:** 3M Tape and Boot applications over 3M 86A Promoter will be more difficult to remove.

**Note:** If desired, 3M 86A Promoter may be sprayed on the surface, using most conventional spray equipment. If dilution is required, it may be done with isopropyl alcohol.\*

### Typical Physical Properties and Performance Characteristics

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

#### Property

Active Ingredient	Polyamide Resin
Solvent	Isopropyl Alcohol, N-Propyl Alcohol
Solids	6.5%
Color	Transparent, Colorless
Viscosity	Approximately 100 cps
Flashpoint	53°F (12°C) Flammable Liquid
Package Size	Pint 16 ounces (473 ml) Presaturated Wipes 7 in. x 7 in. (177 mm x 177 mm) - 5 pre-packaged wipes in pouch
Net Weight	.95 lbs./pint
Storage	Store at 60-80°F (16-27°C). Lower temperature storage will cause 3M 86A Promoter to gel. See Precautionary Information.
Shelf Life	Two (2) years from date of manufacture

Property	Test Method	Units
Initial Peel Adhesion	ASTM D-1000	oz./in. (N/100mm)
[3M™ Polyurethane Protective Tape 8681HS w/ 3M 86A Promoter]	(1 hr dwell, 180° Peel)	
Epoxy/Glass		132.4 (145.0)
Mil-C-85285B		117.0 (128.0)



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### Precautionary Information

If gelling occurs, place the can of 3M™ Adhesion Promoter 86A into a zip-lock plastic bag to keep can and label dry. Place the can of 3M 86A Promoter into a container of hot tap water (120-140°F [49-60°C] max.) for 30 minutes. The gels will go back into solution with no performance effects on the product. **WARNING: This is a flammable liquid!** Do not heat in boiling water or on top of stove/hot plate, in oven or open flames.

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, visit [www.3M.com/msds](http://www.3M.com/msds) or call 1-800-364-3577 or (651) 737-6501. Consult local air quality rules and regulations which may regulate product use.

### For Additional Information

In the U.S., call toll free 1-800-235-2376, or fax 1-800-435-3082 or 651-737-2171. For U.S. Military, call 1-866-556-5714. If you are outside of the U.S., please contact your nearest 3M office or one of the following branches:

<b>Australia</b> 61-2-498-9711 tel 61-2-498-9710 fax	<b>Austria</b> 01-86686-298 tel 01-86686-229 fax	<b>Brazil</b> 55 19 3838-7876 tel 55 19 3838-6892 fax	<b>Canada</b> 800-410-6880 ext. 6018 tel 800-263-3489 fax
<b>China</b> 86-21-62753535 tel 86-21-62190698 fax	<b>Denmark</b> 45-43-480100 tel 45-43-968596 fax	<b>France</b> 0810-331-300 tel 30-31-6195 fax	<b>Germany</b> 02131-14-2344 tel 02131-14-3647 fax
<b>Italy</b> 02-7035-2177 tel 02-7035-2125 fax	<b>Japan</b> 03-3709-8245 tel 03-3709-8743 fax	<b>Korea</b> 02-3771-4114 tel 02-786-7429 fax	<b>Netherlands</b> 31-71-5-450-272 tel 31-71-5-450-280 fax
<b>South Africa</b> 11-922-9111 tel 11-922-2116 fax	<b>Spain</b> 34-91-321-6000 tel 34-91-321-6002 fax	<b>Switzerland</b> 01-724-9114 tel 01-724-9068 fax	<b>United Kingdom</b> (0) 161-237-6174 tel (0) 161-237-3371 fax

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This product was manufactured under a 3M quality standard registered under AS9100 standards.

# 3M

Aerospace and Aircraft Maintenance Division

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