

3M

Adhesive Remover

Aerosol and Bulk

Technical Data

February, 2005

Product Description

3M™ Adhesive Remover is ideal for the removal of adhesive residue or for surface preparation prior to use of adhesive and can be used for cleaning heavy oils, greases, silicone, tar and paraffinic materials such as Cosmoline™ and wax.

Typical Physical Properties

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

	Aerosol – (6.25 & 24 fl. oz. sizes)	Bulk – (1, 5, & 55 gal. sizes)
Base:	Citrus Extract	Citrus Extract
Boiling Point:	Compressed Gas	340-372°F (171-189°C)
Vapor Pressure:	Compressed Gas	< 2 mm Hg
Specific Gravity:	.793	.84
Viscosity:	< 100 cps	.8 cps
Appearance:	Transparent	Colorless to light yellow
Odor:	Mild Citrus	Mild Citrus
Flash Point:	-50°F (-46°C)	117°F (47°C)
FDA 21 CFR 182.20	Yes	Yes
Hazardous Air Pollutants (HAPS):	No	No

Typical Performance Characteristics

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

	Wet Adhesive		Dried Adhesive	
	Metal Substrate	Glass Substrate	Metal Substrate	Glass Substrate
	Time for Complete Removal of Adhesive			
3M™ Hi-Strength 90 Spray Adhesive	< 5 sec.	< 5 sec.	< 1 min.	< 1 min.
3M™ Scotch-Grip™ Rubber & Gasket Adhesive 847	< 5 sec.	< 5 sec.	< 1 min.	< 1 min.
3M™ Scotch-Grip™ High Performance Contact Adhesive 1357	< 5 sec.	< 5 sec.	< 1 min.	< 1 min.
3M™ Spray Mount™ Artist's Adhesive	< 5 sec.	< 5 sec.	< 1 min.	< 1 min.
3M™ Super 77 Multipurpose Adhesive	< 5 sec.	< 5 sec.	< 1 min.	< 1 min.

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Key Features

- FDA Listed Ingredient: The active ingredient is listed as GRAS, Generally Regarded As Safe at 21 CFR 182.20.
- Formulated to replace virtually all commonly used solvents in hand-wipe cleaning processes including: 1,1,1-trichloroethane, acetone, CFC-113, HCFC 141b, isopropyl alcohol (IPA), lacquer thinner, methylene chloride, methyl ethyl ketone (MEK), methyl propyl ketone (MPK), mineral spirits, naphtha, stoddard solvents, toluene, xylene and others.
- Evaporates cleanly, leaving no/minimal (less than 1/10th%) non-volatile residue and exhibits a mild, pleasant citrus odor.
- 3M™ Adhesive Remover evaporates more slowly than the mentioned chemicals, which can result in substantially lower overall chemical use volume and the resulting VOC emissions. Also, rags and wipe-towels do not dry out as rapidly between uses and normally do not need to be as wet as with the highly volatile chemicals mentioned.
- Useful for cleaning and surface preparation prior to painting, bonding, coating or further processing of parts.

Handling/Application Information

3M adhesive remover is designed for use in hand-wipe cleaning processes or in commercially available cleaning equipment. Ultrasonic immersion tanks, spray-under immersion systems, recirculating-type parts washers and immersion/soak tanks.

Caution! This product should not be used as a hand cleaner and skin contact should be avoided. This product may cause skin irritation on prolonged or repeated contact. Do not rinse into waterways or sewers.

Directions for Use

Thoroughly coat 3M adhesive remover on surfaces or parts being cleaned. Wait a few minutes to allow for maximum penetration and loosening action. Use a scraper or wipe with a clean, damp rag. Repeat process and wipe with clean cloth, let air dry. Repeat application when substance to be removed is too thick for maximum penetration. Consult local air quality regulations which may regulate product use.

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Compatibility

3M™ Adhesive Remover is compatible with virtually all metals, as well as many plastics and elastomers. The table below details the results of compatibility testing with selected materials and is intended only as a general guide. 3M recommends that you test compatibility with the particular materials in question under your actual use conditions.

Plastic / Elastomer	Percent (%) Weight Change				Percent (%) Thickness Change			
	72°F (22°C) 9 Month	150°F (66°C) 1 Hour	150°F (66°C) 9 Month	Control ¹ 150°F (66°C) 9 Month	72°F (22°C) 9 Month	150°F (66°C) 1 Hour	150°F (66°C) 9 Month	Control ¹ 150°F (66°C) 9 Month
Acetal	0.29	0	0*	.1*	1.6	0	0*	0*
Acrylic	5.2	0	8.2*	-.3*	1.6	0	3.1*	-1.6*
Acrylonitrile	38.4	2.1	87.4	-2.1	20.3	0	27.7*	1.6*
Buna N	27.1	1.2	2.2*	-.1*	10	3.2	3.2*	0*
Buna S	216.4	115.5	226.2*	.3*	58.8	29.4	64.7*	2.9*
CPVC	2.6	0	9.3*	0*	12.5	0	21.1*	-4.8*
EPDM	71.1	52	68.6*	-.2*	32.1	14.3	25*	0*
Fiberglass (G-10 Epoxy Glass)	0.3	0	0*	0*	1.5	0	1.5*	0*
HDPE	6.1	0.3	7.2	0*	3.2	0	3.2*	1.6*
LDPE	13.8	2.4	24.1	0*	6.4	1.6	6.5*	.6*
Natural Rubber	332	39.5	Stopped	.7	71.9	10.6	75.8	0
Neoprene*	62.9	12.9	69.8	-.1	30	8.3	40	0
Nylon	1.6	-4.2	-4.3*	-.4*	0	3.2	6.5*	1.6*
PBT	0.15	0	.1*	0*	1.8	-0.6	.6*	.6*
Polyimide	1.4	0.1	.15*	-.1*	1.6	1.6	1.6*	1.6*
Polycarbonate	0.13	0	2.1*	-.1*	6.9	0	0*	3.3*
Polyetherimide	0.16	0	-.2*	-.3*	4.8	0	0*	0*
Polyphenylene Oxide	43.4	0.7	Cracked	0	51.6	0	51.6	-1.5
Polypropylene	11	0.2	13.7*	0*	4.9	-1.6	3.2*	-1.6*
Polystyrene	Dissolved	1.7	Dissolved	Stopped	Dissolved	-6.3	Dissolved	Dissolved
Polysulfide	67.6	52.9	65.6*	.1	38.5	36	44*	3.8*
Polysulfone	0.14	0	-.1*	-.2*	1.6	0	0*	0*
PVC, Clear	0.1	0	.7*	0*	10.7	0	1.6*	5.1*
PVC, White	0	0	.1*	0*	4	1.4	-2.8*	2.9*
Silicone	103.7	47.5	124.9*	.5*	51.6	17.2	48.4*	0*
PTFE	0.1	0	0*	0*	0	0	0*	3.1*
1 - Effect of temperature only. Sample kept at 150°F (66°C) with no solvent. * - After one week.								

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Storage	Store product at 60-80°F (16-27°C) for maximum storage life. Rotate stock on a “first in-first out” basis.
Shelf Life	When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 24 months.
Precautionary Information	Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.
Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.
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