

Technical Data Sheet

3M™ Adhesion Promoter 111

Product Description

3M™ Adhesion Promoter 111 is an isopropyl alcohol based solution used to promote better and faster adhesion of 3M™ VHB™ Tapes to various surfaces including bare metals, galvanized steel, and painted surfaces. Since surfaces and paint formulations vary considerably, each application should be verified through testing.


Product Features

- Higher bond strength.
- Increased tape adhesion build rate at both normal and cooler temperatures.
- Isopropyl alcohol based solvent system.
- Non-offensive odor.
- Very quick drying.
- Can clean and promote adhesion in one step provided the surface is relatively clean and free of wax, grease, oil, and loose particles.


Technical Information Note

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


Typical Physical Properties

Property	Values	Additional Information
Color	Clear	
VOC	780 g/L	
Active Ingredient	<5 % by weight	
Flash Point	11 °C	
Flash Point	52 °F	
Solvent Resistance	Isopropyl alcohol (IPA)	
Coverage	19 m ² /L	View 

Notes: Based on 0.002 in wet coating thickness. Can vary greatly depending on method of application.

Coverage	800 sq ft/gal	View 
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Notes: Based on 0.002 in wet coating thickness. Can vary greatly depending on method of application.

Drying Time	1 min	View 
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Notes: Depending on coating thickness, temperature, and humidity.

Available Sizes

250 ml bottle, 1 gallon can

Storage and Shelf Life

3M adhesion promoter 111 will tolerate storage and shipment temperatures from -40°C (-40°F) to 66°C (150°F), but needs to be at a minimum of 10°C (50°F) when applied. Do not store in plastic container for more than 8 hours. Many plastics do not provide an adequate vapor barrier to prevent loss of liquid.

When stored under proper conditions, product retains its performance and properties for 18 months from date of manufacture. Once opened, it is best to use within one month. Shelf life may be decreased, especially if open or poorly resealed container is continuously exposed to hot or humid environments. Properly dispose of any 3M adhesion promoter 111 that is either cloudy or has white precipitate on the bottom of the container.

Bottom Matter

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Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M's Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer's use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

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Handling/Application Information

Application Techniques

Surface must be clean, dry, and free of wax, oil, grease and loose particles.

Substrate must be unified.

Contaminated surfaces must be cleaned with an appropriate cleaner and/or a 50/50 mixture of isopropyl alcohol and water.*

Apply a thin, uniform coating to the bonding surface before application of 3M™ VHB™ Tape. Use the minimum amount that will fully coat the area to be taped.

Application may be done with a clean lint-free cloth, pad, felt tipped dauber, absorbent paper towel or disposable tissue. Brushes, rollers, or spraying tend to apply excessive amounts of 3M™ Adhesion Promoter 111 and should therefore be avoided.

Allow to dry completely prior to application of tape. Depending on temperature and humidity, the drying and reacting time of 3M adhesion promoter 111 can vary. Typical drying time will be 1-2 minutes. Forced, hot air drying of 3M adhesion promoter 111 is acceptable, but remember that 3M adhesion promoter 111 is flammable and must not be used near any open flames or ignition sources.

Apply tape within 8 hours, or reapply 3M adhesion promoter 111.

REPLACE CAP WHEN NOT IN USE. 3M adhesion promoter 111 is reactive with water including moisture (humidity) in air.

*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Cleanup

3M™ Adhesion Promoter 111 can be removed from unwanted surfaces with straight isopropyl alcohol (IPA) or a blend of IPA and water. Rubbing Alcohol is typically 70% IPA and 30% water.*

Excessive 3M adhesion promoter 111 may cause a dull white appearance on the surface. A small amount of chalking should not adversely affect the adhesive strength. If desired,

for appearance purposes, the dull white chalking may be removed after tape application with either a clean dry cloth or a clean cloth that is slightly wet with isopropyl alcohol. Before tape application, the dull white chalking may be removed with a clean cloth that is only slightly wet with more 3M adhesion promoter 111.

*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40065492/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=111

Family Group

Link Tags:

• 111

Products	Color
111	Clear

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Information

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