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English-US

Last Revision Date: September, 2024

Supersedes: August, 2024

Technical Data Sheet

3M™ Adhesion Promoter 111

Product Details

Regulatory Info/SDS

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

Attribute Name	Value
Color	Clear
Drying Time	1 min [1]
Coverage	19 m^2/L (800 ft^2/gal) [2]
Flash Point	11 °C (52 °F)
VOC	780 g/L

[1] Depending on coating thickness, temperature, and humidity.

[2] Based on 0.05 mm (0.002 in) wet coating thickness. Can vary greatly depending on method of application.

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.

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.

Available Sizes - Detailed

250 ml bottle, 1 gallon can

Automotive Disclaimer

Select Automotive Applications:
This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

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