



Technical Data Sheet

3M™ Silane Glass Treatment AP115



Product Details



Regulatory Info/SDS

Product Description

3M™ Silane Glass Treatment AP115 is used to promote adhesion of 3M™ VHB™ Tapes to uncoated glass surfaces. Glass is hydrophilic (water loving) in nature and may lead to performance issues over time in humid or wet environments due to water vapor undercutting the bondline and interfering with normal adhesion forces. 3M silane glass treatment AP115 treats the glass surface creating a hydrophobic surface that will act to protect the 3M™ VHB™ Tape bondline.

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	Temperature	Value
Color		Clear
Liquid Density	16 °C (60 °F)	0.789 kg/L (6.58 lb/gal)
Solvent Resistance		Isopropyl alcohol and water
Flash Point		18 °C (64 °F) ¹
VOC		728 g/L (6.08 lb/gal)
Active Ingredient		<1 % by weight

¹ Closed Cup

Typical Performance Characteristics

Attribute Name	Value
Application Temperature	10 — 38 °C (50 — 100 °F) ¹

¹ It is best to apply the solution at or above the minimum application temperature of the selected 3M™ VHB™ Tape since the tape will be applied shortly after the application of the silane solution.

Handling/Application Information

Application Techniques

The glass surface must be relatively clean and dry. Contaminated glass surfaces (excessively dirty or oily) should be cleaned first with a 50/50 isopropyl alcohol and water mixture.* A clean lint-free cloth should be used. The following surface preparation method should be followed when using 3M™ Silane Glass Treatment AP115 to treat an uncoated glass surface. This procedure is commonly known as the “two cloth” cleaning method.

1. Moisten a clean, soft absorbent, lint-free cloth with the silane solution and vigorously wipe over the area to be bonded in one direction. Do not dip the cloth into the silane solution as this will contaminate it. Alternatively, the silane solution may be sprayed onto the surface and vigorously wiped with the clean cloth around the perimeter of the glass or wherever the tape will be applied. Experience has shown that only a very thin layer (monolayer) of the silane solution gives the best and most consistent results.

2. In an effort to achieve a monolayer, the primed area should be re-wiped (in one direction) with a fresh, clean, lint-free, dry cloth immediately after initial application. The glass should be completely dry with no film residue visible.* Under normal room temperature conditions it is best to wait 1 to 2 minutes before applying the tape so that any residual moisture can evaporate. Apply 3M™ VHB™ Tape within 15 minutes after treating the surface to minimize the risk of recontamination of the surface.

*3M™ Silane Glass Treatment AP115 is clear and should not cloud or discolor glass. If clouding occurs, excess solution has been applied. This must be removed immediately with a dry and clean, lint-free cloth prior to bonding with 3M™ VHB™ Tape. If excess solution has been allowed to dry it must be removed with a 50/50 isopropyl alcohol and water mixture.*The two cloth cleaning method can then be followed again prior to tape application.

*Note: When using solvents, extinguish all ignitions sources, including pilot lights, and follow the manufacturer's precautions and directions for use. Please refer to the MSDS for further precautions and safe handling information for this product.

Storage and Shelf Life

Flammable Liquid and Vapor. Keep away from sources of ignition and avoid static discharge. Conductive clothing and shoes are recommended while dispensing or handling this product. • Keep 3M silane glass treatment AP115 in the original container unless transferring from the one gallon container to a smaller vessel such as a 4 oz. spray bottle. • Keep original container tightly sealed to avoid solvent evaporation. • Store in an environment between 10°C to 35°C (50°F to 95°F). Allow the solution to acclimate to application room temperature condition before using to treat glass. When stored under proper conditions, product retains its performance and properties for 12 months from date of manufacture. See the date of manufacture listed on the bottle label.

Available Sizes - Detailed

4 fl. oz. (118 ml) spray bottle or 1 gallon (3.78 L) bulk bottle

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

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