

3M VHB™ Silane Glass Primer

Product Data Sheet

September 2022
Supersedes: March 2014

Product Description

Due to the hydrophilic (water loving) nature of glass the VHB™ adhesive tape bond may be “undercut” by moisture getting between the adhesive and the glass surface in applications subject to high humidity and frequent water contact. This causes bond weakening and can lead to adhesive failures from the glass.

To combat this effect on such applications the use of a silane primer to prepare the glass is essential, for example: Plastic, metal or painted metal glazing bars bonded to glass windows. Bonding letters to glass shop fronts. Viewing windows for equipment expected to perform in the presence of water. Glass in bathrooms or kitchens (hostile, internal environment).

Construction

	VHB™ Silane Glass Primer
Basis	Silane
Solvent	Isopropanol
Solid content	0,5 %

Application Guidelines

Surfaces to be bonded together must be clean, dry and at room temperature (60 °F / 15 °C or more). Light dirt or contamination should be removed using VHB™ Surface Cleaner and applied using lint free cloth. Full cleaning procedures must be followed prior to silane primer application.

1. Moisten a clean, dry lint free tissue with VHB™ Silane Glass Primer.
2. Apply to the area to be bonded by wiping the surface in one direction with the moistened tissue.
3. For consistently good results apply only a very thin layer on VHB™ Silane Glass Primer. This can be achieved by wiping the primed area with a clean dry tissue, immediately after the initial application (wipe-on-wipe-off).

3M VHB™ Silane Glass Primer is clear and should not cloud or discolour glass. If clouding occurs, excess primer has been applied. This must be removed immediately prior to bonding with VHB™ Tape. If excess primer has been allowed to dry it must be removed with VHB™ Surface Cleaner and the priming process repeated prior to bonding.

Apply VHB™ Tape immediately after primer has dried (within 5 minutes).

Note: Read also Technical Bulletin *VHB™ Tape Glass Bonding and Silane Coupling Agents*.

Storage	Store in original container at approx. 21 °C and 50 % relative humidity.
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Shelf Life	When stored under proper conditions, product retains its performance and properties for 12 months from date of manufacture, it is recommended to use the product within one month after opening the container; see also product label. Note: Shelf life may be decreased, especially if open or poorly resealed container is continuously exposed to hot or humid environments
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Precautionary Information	Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information see below for contact details.
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For Additional Information	To request additional product information or to arrange for sales assistance, please see below for contact details.
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Automotive Disclaimer	<p>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.</p> <p>NOTWITHSTANDING ANY OTHER STATEMENT TO THE CONTRARY, 3M MAKES NO REPRESENTATIONS, WARRANTIES OR CONDITIONS WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCT IF USED IN AN AUTOMOTIVE ELECTRIC POWERTRAIN BATTERY OR HIGH VOLTAGE APPLICATION, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY ON PERFORMANCE, LONGEVITY, SUITABILITY, COMPATIBILITY, OR INTEROPERABILITY, OR ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.</p>
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All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations



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