

# TBP Converting, Inc. 3M Silane Glass Treatment AP115

3M™ Silane Glass Treatment AP115



**Product Description** 

EN - May, 2022

# Technical Data Sheet

# 3M™ Silane Glass Treatment AP115

| 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.   |
|  |

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|--|---|---------------------------------------|--|--|
| Technical Information Note   | Technical Information Note                                |                                       |  |  |
| The following technical information and data should b  | e considered representative or typical only and should no | t be used for specification purposes. |  |  |
| Typical Physical Properties  |   |                                       |  |  |
| Property   | Values  | Additional Information                |  |  |
| Color  | Clear   |                                       |  |  |
|  |   |                                       |  |  |
| Liquid Density   | 6.58 lb/gal   | View ^                                |  |  |
| Test Condition: @ 60°F   |   |                                       |  |  |
| Liquid Density   | 0.789 kg/L  | View ^                                |  |  |
| Test Condition: @ 15.6°C   |   |                                       |  |  |
| VOC  | 728 g/L   |                                       |  |  |
|  |   |                                       |  |  |
| VOC  | 6.08 lb/gal   |                                       |  |  |
|  |   |                                       |  |  |
| Active Ingredient  | <1 % by weight  |                                       |  |  |
|  |   |                                       |  |  |
| Flash Point  | 64 °F   | View ^                                |  |  |
| Notes: Closed Cup  |   |                                       |  |  |
| Flash Point  | 18 °C   | View ^                                |  |  |
| Notes: Closed Cup  |   |                                       |  |  |
|  |   |                                       |  |  |
|  |   |                                       |  |  |

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| Solvent Resistance | Isopropyl alcohol and water  |
|--------------------|--|
|                    |  |
| Coverage           | Approximately 20 - 25 sqft per 4 fl. oz. bottle (1.8 - 2.3 m² per 118 ml bottle) |
|                    |  |

#### Typical Performance Characteristics

| Property                | Values      | Additional Information |
|-------------------------|-------------|------------------------|
| Application Temperature | 10 to 38 °C | View ^                 |

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

Application Temperature 50 to 100 °F View ^

Notes: It is best to apply the solution at or above the minimum application temperature of the selected  $3M^{TM}$  VHB<sup>TM</sup> Tape since the tape will be applied shortly after the application of the silane solution.

## Available Sizes

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

# Storage and Shelf Life

- 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 50°F to 95°F (10°C to 35°C). Allow the solution to acclimate to application room temperature condition before using to treat glass. Note: 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.

When stored under proper conditions, product retains its performance and properties for one year from date of manufacture. See the date of manufacture listed on the bottle label.

# 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

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<sup>™</sup> VHB<sup>™</sup> 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.

## References

| Property              | Values   |
|-----------------------|--|
| 3m.com Product Page   | https://www.3m.com/3M/en_US/p/d/b40065484/   |
| Safety Data Sheet SDS | https://www.3m.com/3M/en_US/company-us/SDS-search/results/?<br>gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=AP115 |

# Family Group

Link Tags:

AP115

# Products

AP115

# ISO Statement

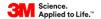
This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards

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