Millennium Sprayable PVC Single-Ply Bonding Adhesive

DESCRIPTION
Millennium Sprayable PVC Single-Ply Bonding Adhesive is a fast drying, sprayable bonding adhesive for adhering PVC and Fleece membranes to horizontal and vertical roof surfaces. The adhesive formula offers excellent adhesion and quick drying over a wide range of temperatures. Millennium Sprayable PVC Single-Ply Bonding Adhesive is approved for use in all VOC regulated regions per current requirements.

BASIC USE
The adhesive is applied in a variable web spray pattern via a self-contained spray system. Product is applied full coverage to adhere PVC and Fleece membranes to approved insulation, cover board, OSB etc. The adhesive must be applied to both the membrane and substrate to which it will be mated. Once dry the membrane can be mated to the substrate and brushed in.

APPROVED SUBSTRATES
Acceptable substrates include: Polyiso, Polyiso HD, DensDeck® Prime, SECURock®, OSB, plywood, metal, residual asphalt, masonry, and most gypsum based cover boards.

APPROVED MEMBRANES
PVC and PVC Fleeceback membranes.

COLOR
Neutral

SURFACE PREPARATION
All work surfaces should be clean, dry, and free of dirt, dust, debris, oils, un-adhered coatings, deteriorated membrane or other contaminants that may result in a surface that is not sound or is uneven.

SAFETY
Millennium Sprayable PVC Single-Ply Bonding Adhesive contains a flammable liquid propellant and vapor. Vapors from applied adhesive are heavier than air and may travel along the ground or through ventilation and may be ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources. Residual vapors may ignite even though adhesive is not being actively applied. Keep away from open flame. Use in well ventilated areas. Avoid inhalation of spray mist or vapors. Appropriate PPE, gloves and goggles must be worn when using this product. Never aim spray gun at people. Read label and safety data sheet prior to use for complete safety, precaution and warning information.

LIMITATIONS
Not for use on EPDM, TPO, or KEE membranes.

EQUIPMENT
Hose, applicator tip, and spray applicator must be purchased separately.

FEATURES

| VOC <200 g/l | Approved for use in all regulated areas |
| Quick and easy application | Reduce labor cost and minimal clean up |
| Excellent adhesion to PVC & Fleeceback membrane | Superior long term uplift performance |
| Fast drying, <7 minutes in most conditions | Allows for faster membrane application |
| Open Time 1-20 minutes @ 68°F (20°C) | Provides flexibility for proper installation |

CAUTION: All statements and technical information in this document are based on tests or data that H.B. Fuller believes is reliable. However, H.B. Fuller does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of H.B. Fuller’s products in the user’s intended application. It is the user’s responsibility to conduct tests to determine the compatibility of H.B. Fuller’s product with the design, structure, and materials of the user’s end product and the suitability of H.B. Fuller’s product for the user’s method of application and intended use. The user assumes all risk and liability arising out of such use.
APPLICATION

1. Shake adhesive canister for 30 seconds prior to use.
2. Connect spray applicator to hose and connect hose to adhesive canister. NOTE: Must use a stainless steel braided metal hose - contact H.B. Fuller for details. Open valve on canister to check fittings for leaks. Keep adhesive canister valve open to maintain pressure in the hose/spray applicator when not in use. Once valve has been turned on, do not turn the valve off until the adhesive canister is completely empty or proper cleaning is performed. Refer to guidelines on canister label for cleaning.
3. Millennium Sprayable PVC Single-Ply Bonding Adhesive can be applied at ambient temperature of 40°F and above. Adhesive canister temperature must be at least 70°F prior to use and for the product to spray properly. Utilize H.B. Fuller Warming Blanket, and hot boxes when necessary. Substrate must be clean, dry, and free of debris and contaminants.
4. Adjust the spray pattern/fan by slowly adjusting trigger lock to the desired pattern. Lock trigger when not in use.
5. Visually target the “Correct Amount of Adhesive” coverage pattern detailed in the image below to both membrane and substrate. Apply adhesive with proper overlap to ensure adequate adhesive coverage. For vertical surfaces apply adhesive in a heavier application.

PACKAGING AND COVERAGE

<table>
<thead>
<tr>
<th>Item</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>#38 canister</td>
<td>15436-CST18</td>
</tr>
<tr>
<td>Spray Gun</td>
<td>30004-004</td>
</tr>
<tr>
<td>12’ Hose</td>
<td>380018</td>
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<tr>
<td>Extended Applicator</td>
<td>30005-004</td>
</tr>
<tr>
<td>Applicator Tips</td>
<td>380017</td>
</tr>
</tbody>
</table>

- Coverage rate is 1,000 ft²/canister for finished two sided application when laminating smooth field membrane to board stock/substrate. Coverage rates may vary with fleece membrane.
- Coverage rate is 750 ft²/canister for two sided vertical wall application when laminating smooth field membrane to wall substrate. Coverage rate for this application is decreased due to increased overlap of spray pattern for the vertical application.
- Coverage rates may be lower when used over irregular surfaces and will vary depending on roughness of membrane/substrate surfaces.

CLEANUP

Short Term Storage:
1. Leave valve on adhesive canister open and lock applicator so trigger cannot be engaged.
2. Make sure to clean spray tip in a well ventilated area using appropriate PPE.
3. Remove spray tip by removing retaining nut. Clean spray tip and retaining nut by soaking in appropriate solvent (ketone, aromatic, etc).
   a. Spray tip may require manual cleaning with appropriate sized probe (small wire or pipe cleaner) to help remove build up.
   b. An aerosol solvent based cleaner may also be used to help remove build up.
4. Clean applicator tip and threads with appropriate solvent.

Long Term Storage:
1. Make sure to clean applicator/hose assembly in a well ventilated area using appropriate PPE.
2. Close valve on canister and engage trigger to completely relieve pressure on applicator/hose.
3. Disconnect the hose from the canister outlet.
4. Remove spray tip by removing retaining nut. Clean spray tip and retaining nut by soaking in appropriate solvent following instructions detailed in “Short Term Storage Cleaning”.
5. Connect hose to outlet of Millennium Canister Flush Solution; tighten with a wrench using caution not to over tighten.
6. Open canister valve fully on flush cylinder and squeeze handle of spray applicator to allow flow of flush solvent through hose.
   a. Flush an adequate amount of solvent through the hose into an appropriate collection container.
7. Once flushed, close the flush canister valve, and engage trigger to relieve pressure on applicator/hose.
   a. Make sure to collect all flush solution into an appropriate container.
8. Disconnect the hose from the canister outlet and drain any residual flush solvent into an appropriate collection container.
9. Clean applicator tip and threads with appropriate solvent.
10. Read Product Information Sheet and Safety Data Sheet before use.

STORAGE AND SHELF LIFE

Store canister in a safe, conditioned space with temperature maintained above 70°F. Do not store canister in areas where temperatures reach 90°F or higher. Contents are flammable. Store in accordance with local, state, and federal regulations.

With the hose and applicator attached, keep canister valve open to maintain pressure in the hose and spray gun. Periodically spray in a safe manner to help prevent possible clogging. Keep sprayer applicator trigger locked when not in use.

Shelf life is 12 months in unopened packaging and stored at temperatures of 40°F to 90°F.