

It's a Matter of Life...

OR LEAKS!



A quick reference guide to selecting the right H.B. Fuller roofing membrane adhesive.

Refer to the following information for recommended installation adhesives, what can impact the installation, and benefits of a fully adhered roof system.

Membranes & Adhesives



TPO

Single-ply TPO (thermoplastic polyolefin), a reflective membrane that comes in white and various other specialty colors. Seams are welded, rather than taped, and provide a long-term watertight bond when adequately heat-welded.

TPO Adhesives:

- Millennium Single-Ply Bonding Adhesive EPDM / TPO
- Millennium Sprayable Single-Ply Bonding Adhesive
- Millennium LVOC Single-Ply Bonding Adhesive



PVC / KEE

Single-ply PVC (Poly Vinyl Chloride) or KEE (Ketone Ethylene Ester) variations of membranes, come primarily in white or gray, but are available in a wide color range. These are typically energy efficient, low maintenance, and highly durable.

PVC / KEE Adhesives:

- Millennium Sprayable PVC Single-Ply Bonding Adhesive
- Millennium KEE / PVC Single-Ply Bonding Adhesive



EPDM

Single-ply EPDM (ethylene propylene diene terpolymer) is a synthetic rubber membrane. Energy efficient, flexible, fast, and reliable - available in a variety of sizes.

EPDM Adhesives:

- Millennium Single-Ply Bonding Adhesive EPDM / TPO
- Millennium Sprayable Single-Ply Bonding Adhesive
- Millennium LVOC Single-Ply Bonding Adhesive



FLEECE-BACKED

TPO, PVC, and EPDM all come as single-ply or with a fleece-backing on it. This backing enhances durability and improves tear resistance. Excellent for re-cover applications over various substrates.

FLEECE-BACKED Adhesives:

- Millennium PG-1 Pump-Grade Adhesive
- Millennium PG-1 EF ECO
- Millennium Sprayable Single-Ply Bonding Adhesive

What Impacts Adhesion

Follow these tips to make sure your adhesive is applied properly:

Coat Weight & Coverage Rate

Always apply the specified coat-weight / coverage-rate evenly and ensure the correct working time is followed. This will allow for full bonding of the membrane to the substrate.

Type of Adhesive & Cure Time

For adhesives containing solvent, the adhesive layer must be given time to allow the solvents to fully evaporate to prevent entrapment in the bond line. For urethane adhesives, membrane must be mated with substrate according to system manufacturer's current written guidelines.

Environmental Factors

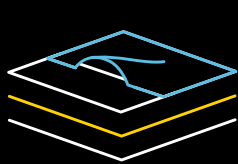
Remember both temperature and relative humidity will affect the cure-rate of all adhesives. Generally: increasing temperature reduces the open-time of the adhesive.

Manufacturer's Testing

The membrane manufacturers have adhesives tested with their products to ensure the adhesive performs as expected with each membrane. Always be sure to check your adhesive selection against the approved list by the manufacturer for your membrane.

FULLY ADHERED vs Mechanically Attached

The benefits of a fully adhered roof speak for themselves:



Seams

Fully adhered membranes reduce seam stress by locking down the membrane between seamlines.



Sheet Flutter

Fully adhering the membrane eliminates the chance of membrane drumming caused from sheet flutter.



Blisters

Properly installed adhered single-ply membranes lay flat & smooth, and look great.



Shrinkage

Fully adhered roofing eliminates fastener stress points caused by membrane expansion & contraction.



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