

2018 ★
Year
In Review

January 2019

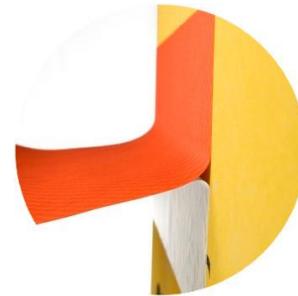
On behalf of everyone at VaproShield, thank you for a wonderful 2018. As we enter 2019, we would like to take a moment to reflect on the previous year and all of it's highlights.

2018 Highlights

Adhesive Performance: Technical Bulletin

VaproShield's Technical Department released a Tech Bulletin to clarify questions surrounding the user and need of primers vs. pressure-sensitive adhesives.

VaproShield's Advanced PSA Technology



Our proprietary, pressure-sensitive adhesive eliminates the need for primer



It also allows re-positioning, improving the quality and speed of the installation process.



Technical Memorandum

One of the most common questions about VaproShield SA Self-Adhered WRB/Air Barrier and ResoalShield SA Self-Adhered is "Does it require primer?" The simple and short answer is NO—NEVER. Why? VaproShield has spent years developing an innovative, proprietary, and vapor permeable adhesive technology. VaproShield manufactures this exclusive formula and applies it to our high performance WRB and AB self-adhered sheet membranes.

Advancements in Adhesive Technology
Over the past decade there has been a tremendous evolution in adhesive technology. Pressure-sensitive adhesives (PSA) are being used in countless industries, often completely replacing mechanical fasteners. The automotive industry, for example, now relies on advanced adhesive technologies to attach components that previously required welds or rivets. The construction industry has seen advancements in adhesive technology too. However, some manufacturers still rely on primers to achieve short term adhesion testing requirements. More on these primers later in this bulletin.

Long term (or permanent) adhesion of a WRB/AB material to the wide variety of substrates utilized in today's buildings cannot be adequately evaluated or accurately measured by a simple laboratory pull test. VaproShield WRB/AB self-adhered materials are often applied to exterior gypsum sheathing, poured-in-place concrete columns, steel framing, and rigid framing—all on the same building! In addition, VaproShield self-adhered materials are applied to many rigid insulation products. Over the last decade, millions of square feet have been installed with excellent success and long term performance.

Longevity is Required
WRB/ABs must perform in dynamic environments that last 50-100 years; therefore, evaluation requires a more sophisticated analysis than a simple pull test. Test results without the dwell or time between the initial application and testing are meaningless. Temperature is

another variable that drastically changes the behavior of an adhesive. In the case of PSAs, the pressure applied during installation is an important variable as well. To state that a material does not meet a standard without divulging all pertinent data and facts regarding the test parameters is irresponsible and misleading.

The viscoelastic behavior of most adhesives varies with temperature, time, and substrate porosity. Initial tack, shear resistance, temperature range, bonding and debonding behavior all must be evaluated when designing an adhesive. In addition, the effect on vapor permeability must be carefully considered, as well as the ease of application for the installing tradesman.

VaproShield's proprietary, pressure-sensitive adhesive technology was designed to allow limited repositioning of the material prior to applying pressure, in order to aid installers in applying the material, often in tough jobsite conditions. The ability to reposition material during installation improves the quality and speed of the installation process. While PSA technology is not new, recent advancements in polymer chemistry have introduced new formulations that provide excellent performance in a wide range of applications. While other adhesives rely on primers to achieve adhesion, VaproShield's advanced PSA technology eliminates the need for primer.

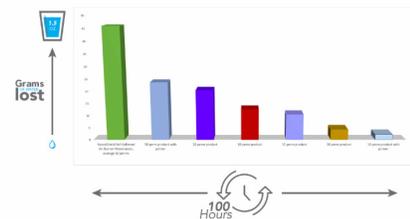
Why Eliminate Primer?
Why is the elimination of a primer important? The obvious answer is cost, including both the cost of the primer and the cost of labor to install it. Waiting for primer to dry (including on multiple coats) can significantly add to overall labor costs. By completely eliminating primer, a self-adhered WRB/AB material can be installed faster and more efficiently. In addition, eliminating primers can also limit the need for respirators and protective clothing often required for workers when volatile chemicals are present.

Our competition would have you believe the following:
"Jobsites are the real world where the products must perform. Jobsites are neither reliably dry nor reliably dust- or dirt-free. The optimal results obtained in the lab will not directly translate to the field. While any membrane might be sticky enough to stick to a given substrate without

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The Tech Bulletin reviewed:

- Advancements in adhesive technology
- The significance of longevity as a test variable
- Common industry misconceptions
- How primer can diminish drying capacity
- Competitive references



With our PSA, there is no degradation of vapor permeability or drying capacity.



Bridge on Race, a 31,000 sq. ft. WrapShield SA project, received the 'Best Residential Hospitality' Award in this year's ENR MidAtlantic Best Projects Competition. The project is yet another VaproShield collaboration with renowned architectural firm Gluck+, following The Stack—a groundbreaking modular building located in New York City.

Superior Customer Support: A Case Study

Zac Brown's Camp Southern Ground

WrapShield SA Self-Adhered was installed on the first lodge at Zac Brown's Camp Southern Ground in Chattanooga, TN.

Kevin Meara of Metro Waterproofing praised VaproShield saying, "They provided us with superior support to combat a difficult and unpersuadable waterproofing consultant."



Climate Control: Installed in Variable Weather Lumin Residences at SNOWMASS Lot 4

Over 20,000 sq. ft. of WrapShield SA Self-Adhered was installed on the Lot 4 LUMIN residences at Snowmass Base Village in Snowmass, Colorado.



VaproLiqui-Flash Available in a Pail

VaproLiquiFlash is now available in a pail as well as a sausage for even greater application freedom. See the VaproLiqui-Flash product page for more information!



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