

## PRODUCT DATA SHEET

## P2ZEWALL-ST

Fluid Applied Vapor Permeable Water Based Water Resistive Air Barrier



# PATH 2 ZERO ENERGY

#### **DESCRIPTION**

P2ZEWALL-ST is a primerless, single component, high performance, elastomeric fluid applied STP (Silyl Terminated Polymer) that combines the best characteristics of silicone and urethane properties for exterior wall assemblies where it functions as an air and water barrier. Applied in a single coat via airless sprayer or roller, this durable elastomeric weatherproofing membrane has excellent elasticity and crack bridging capabilities contributing to a seamless durable airtight building envelope. It has excellent weatherability and is UV and water resistant. VOC compliant in the US. STPU chemistry allows enhanced compatibility with a diverse selection of wall components. Performs as a vertical odor containment barrier when used with odor control systems.

### STORAGE AND HANDLING

Store in a cool, dry place. Keep container tightly closed when not using. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals.

P2ZEWALL-ST has a shelf life of 12 months after the date of manufacture when stored in original unopened containers at temperatures above 40°F.

Dispose of unused product and container in accordance with local, state & federal regulations.

#### **APPLICATION**

Surface Preparation: Surfaces must be dry and free of all contaminants such as oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate and frost. Precast using form release agents must be sandblasted or mechanically abraded and dust free. Best practice requires to test for compatibility and adhesion prior to full scale application.

Application: Flash all transitions, seams and penetrations with P2ZE-FLASH prior to applying P2ZEWALL-ST. May be applied with a roller, brush or airless sprayer. Use a 3/8" nap roller over smooth surfaces and 1/2" nap roller over rough surfaces. Roller apply in a single coat at 10-16 wet mils. Porous substrates such as block may require two coats at 10 wet mils each. When spray applying, back rolling is necessary to ensure there are no pinholes, voids or gaps in the membrane. Inspect for pinholes, voids or gaps and repair. Size 623 spray tip is recommended. For Rain Screen Applications apply at 25-30 wet mils.

Precautions: Use with adequate ventilation and avoid breathing of the vapors. In closed areas, wear approved breathing apparatus, and protective gear/clothing.

Should not be used in the following applications: Do not use on below grade applications. Dilution or thinning with water, solvents or paint thinner is not recommended.

Do not use if rain is imminent.

Do not store material at temperatures below 25°F.

#### PHYSICAL PROPERTIES

Description	Results
Dry time at 14 wet mil	1 Hour
Application Temperature	≥ 10°F (-12°C) <122° (50°C)
Asphalt Compatibility AAMA 713	Pass
Tensile Strength ASTM D4 12	85
Modulus @100% Elongation, ASTM D412	>30
Elongation at Break ASTM D412	>1000%
Water Vapor Transmission ASTM E96	20 perms
Application Thickness	10-15 mil
Rain Screen Application Thickness	25-30 mil
Nail Sealability ASTM D1970, 180°	Pass
UV Resistance ASTM D4587	Pass
Crack Bridging ASTM C1305	Pass
Air Penetration of Building Materials ASTM E2178	0.00024
Wall Assembly Air Penetration Resistance ASTM E2178	0.0006 Size 623 spray tip is recommended
Water Penetration Resistance AATCC 127	Pass
Surface Burning ASTM E84	Flame Index 5 Smoke Index 15
Percentage Solids (weight)	78%



#### THEORETICAL COVERAGE RATE

Plywood - 60 - 100 sq. ft. / gallon OSB - 50 - 90 sq. ft. / gallon CMU - 30 - 60 sq. ft. / gallon

#### CLEAN UP

Clean tools and spray equipment with Isopropyl or denatured alcohol right after use. Best advice on clothes is to not even try but to dedicate them to liquid flashing days.

#### Limited Warranty

TO THE MAXIMUM EXTENT ALLOWED BY LAW, PASSIVE HOUSE PROVISIONS LLC DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

#### LEGAL DISCLAIMER

All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, agreement, or substitute for expert or professional advice. Passivehouse Provisions LLC. expressly disclaims and assumes no liability for the use of the products or reliance on this information. It is the sole responsibility of the user to determine the suitability of any products for user's application(s). The information provided relates only to the specific products designated herein and may not be valid where such products are used in combination with other materials or in any process. The performance of the product, its shelf life, and application characteristics depends on many variables, and changes in these variables can impact product performance. The user is responsible for testing the suitability of any product in advance for any intended use or application and before commercialization. Nothing herein shall be construed as a license for the use of any product in a manner that might infringe any patent and it should not be construed as an inducement to infringe any patent. Please carefully review the Safety Data Sheet for the product.

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. PASSIVE HOUSE PROVISIONS, LLC DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem and must be submitted with written proof of purchase. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of the remedy available under this warranty, shall be made in our sole discretion and any decision made by PASSIVE HOUSE PROVISIONS LLC shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to, a warranty of merchantability or fitness for a particular purpose and in no case will PASSIVE HOUSE PROVISIONS LLC be liable for damages other than those expressly stated in this warranty, including but not limited to, incidental or consequential damages.

> Passivehouse Provisions LLC Path 2 Zero Energy Coatings 302-589-4172