

One-Step Trowel-On Membrane

One-Step Trowel-On Membrane* is the latest in the **energex**[®] series of NextGen products. It is a patented* self-gauging trowel-on membrane that acts as both moisture/air barrier and adhesive. One Step Trowel On Membrane* produces a level surface of approximately 1.5 mm thickness of membrane and adhesive with standard hand trowel applications and allows simultaneous installation of drainage insulation. This feature makes waterproofing applications fast and easy, saving labor costs of 25% or more in efficient application of drainage insulation over vapor/air barrier membrane.



Uses:

One Step Trowel On Membrane* is used as a trowel applied weather barrier/adhesive over Gypsum sheathing, Dens Glass Gold / SECUROCK and sound unpainted exterior grade wood based sheathings such as plywood and non-veneer boards. For use on other substrates, contact **energex**[®] for specific written approval. All Joints must be reinforced with a 4" wide strip of ENERMITE 2.5 mesh.

Surface Preparation:

Surfaces shall not be below 45° F or painted and must be clean, dry, structurally sound and free of grease or oil. American Plywood Association guidelines must be followed to insure proper installation of the wood based sheathings.

*U.S. Patent No.8,640,421 B2, Feb 4, 2014

Characteristics:

Drying Time:

Drying time depends upon the air temperature relative humidity and the porosity of the sheathing. Under average drying conditions (70° F, 55% R.H.), One Step Trowel On Membrane* sets within 3 hours and achieves full cure in approximately seven days. Protect work from rain for at least 12 hours.

Working Time:

After applying One Step Trowel On Membrane* to the substrate, the insulation board should be immediately attached to the substrate.

Bond Strength (ASTM D-897):

50 psi (plywood/plywood substrate failure).

Water Vapor Transmission:

Does create a water vapor barrier when installed according to application instructions.

Flexibility:

Will accommodate reasonable movement of wood based sheathings due to expansion and contraction without reduction of bond.

One-Step Trowel-On Membrane

NOTE: For Adhesive Use:

One Step Trowel On Membrane* IS NOT SUITABLE for Bonding Isulation Board to Insulation Board

Application:

One Step Trowel On Membrane* should be applied directly to the substrate using a stainless steel trowel. Integrated orb technology gauges the coating thickness. By trowel tape the substrate joints with Enermite 2.5 Detail Mesh. Upon completion of joint taping, skim (using the integrated orbs as a gauge) the entire substrate field, making sure there are no voids or thin areas on the surface area. The One Step Trowel On Membrane* is tinted to help with this process. While the One Step is wet place the **energex®** EPS Foam into the coating in a running bond pattern as per the standard details. Allow 3-6 hours of cure time before rasping the foam boards.

Physical Properties

Property	Method	Results
Tensile Strength	ASTM-D412	150-200psi
Elongation	ASTM-D412	350-400%
Viscosity	ASTM-D2393	100-104 K.U.
Low Temp. Flex bend @ -20°F	ASTM-D412	passes 180°
In Service Temp. Range	ASTM-D822	-20° F - 200° F
Permeability	ASTM-Eg6-80	4.8 perms @ 29 dry mils.
Rate of Airflow	ASTM-E283	Infiltration <0.0001cfm/ft ² Exfiltration <0.0001cfm/ft ²
Freeze/Thaw Stability		Passes 5 cycles
Flash Point	None	
Solids by Weight	69.9%	
Solids by Volume	60%	

Characteristics:

Clean Up:

Clean tools with water while One Step is still wet.

Coverage:

140 square feet per pail.

Storage:

One Step Trowel On Membrane* must be stored at 45° F or above in tightly sealed containers out of direct sunlight.

Job Conditions:

Temperature for application of One Step Trowel On Membrane* must be 45° F or higher and must remain so for a minimum of 48 hours.

Mixing: No mixing is required. Add NO Water!

*U.S. Patent No.8,640,421 B2, Feb 4, 2014

Important Notice to Purchaser: The following is made in lieu of all warranties, express or implied: energex's (eifs, inc.) only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequently arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers of seller and manufacturer.