energex® wall systems

energex® Enershield — Used As An AIR / Weather Barrier Roll On Membrane — E155

DESCRIPTION:

ENERSHIELD is a fully formulated, premixed water based acrylic co-polymer roll on membrane

USES:

ENERSHIELD is used as a roller applied air / weather barrier over Gypsum sheathing, SECUROCK / Dens Glass Gold and sound unpainted exterior grade wood based sheathings such as plywood, non-veneer boards and CMU and masonry. For use on other substrates, contact **Energex** for specific written approval. All Joints must be reinforced with a 4" wide strip of **ENERMITE 4.5** mesh.

CHARACTERISTICS:

Drying Time - Drying time depends upon the air temperature relative humidity and the porosity of the sheathing. Under average drying conditions (70^0 F, 55% R.H.), **ENERSHIELD** 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 **ENERSHIELD** to the insulation board, the coated board should be immediately attached to the substrate.

Bond Strength (ASTM 0-897) - 50 psi (plywood/plywood substrate failure).

Water Vapor Transmission - Does not 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 .

SURFACE PREPARATION:

Surfaces shall not be below 45^0 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.

Job Conditions - Temperature for application of **ENERSHIELD** must be 45° F or higher and must remain so for a minimum of 48 hours.

Mixing - No mixing is required. **Water should not be added**.

APPLICATION:

ENERSHIELD shall be applied directly to the substrate using a Roller or brush. A minimum of 2 coats is recommended. While the first coat is still wet apply the **Enermite 4.5** mesh to the joints and re-roll the joint adding more **Enershield** if needed to fully cover the **Enermite 4.5** mesh. Let cure for at least 12 hours before applying the second coat. Once the second coat is applied, make sure there are no voids or thin areas on the surface area. The **Enershield** is tinted a red color to help with this process. Let second Coat cure for 24 hours before proceeding to the next step.

NOTE: **ENERSHIELD** IS NOT SUITABLE FOR BONDING INSULATION BOARD TO INSULATION BOARD.

Clean Up - Clean tools with water while **ENERSHIELD** is still wet.

COVERAGE:

350-450 square feet per pail.

STORAGE:

ENERSHIELD must be stored at 45^0 F or above in tightly sealed containers out of direct sunlight.

PHYSICAL PROPERTIES:

PROPERTY	METHOD	RESULTS
Tensile Strength	ASTM-D412	150-200psi
Elongation	ASTM-D412	350-400%
Viscosity	ASTM-D2393	100-104K.U.
Low Temp. Flex	ASTM-D412	passes 180° bend @ -20°F
In Service Temp. Range	ASTM-D822	-20 - 200°F
Permeability	ASTM-E96-80	4.8 perms @ 29 dry mils.
Rate of Airflow Under Pressure	ASTM-E283	Infiltration ‹0.0001cfm/ft² exfiltration ‹0.0001cfm/ft²
Freeze/Thaw Stability		Passes 5 cycles
Flash Point		none
Solids by Weight		69.9%
Solids by Volume		60%

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