

LIQUID BOOT® 500

SPRAY-APPLIED GAS VAPOR BARRIER

DESCRIPTION

LIQUID BOOT® 500 is a seamless, spray-applied, water-based membrane containing no VOCs, which provides a barrier against vapor intrusion into structures. LIQUID BOOT® 500 spray application directly to penetrations, footings, grade beams, pile caps and other irregular surfaces, provides for a fully-adhered gas vapor barrier system.

APPLICATIONS

LIQUID BOOT® 500 is used as an underslab gas vapor barrier, used to minimize vapor migration into buildings. LIQUID BOOT® 500 is ideal for methane migration control.

BENEFITS

- Can be installed more economically than LIQUID BOOT®, resulting in greater savings
- LIQUID BOOT® 500 is comprised of the same elements as LIQUID BOOT®
- Unique formulation provides superior protection from methane gas

INSTALLATION

Protect all adjacent areas not to receive gas vapor barrier. Ambient temperature shall be

within manufacturer's specifications. All plumbing, electrical, mechanical and structural items to be under or passing through the gas vapor barrier shall be secured in their proper positions and appropriately protected prior to membrane application. Gas vapor barrier shall be installed before placement of reinforcing steel. Expansion joints must be filled with a conventional waterproof expansion joint material. Surface preparation shall be per manufacturer's specification. A minimum thickness of 60 dry mils, unless specified otherwise.

PACKAGING

LIQUID BOOT® 500 is available in the following packaging options:

- 55 Gallon Drum
- 275 Gallon Tote

EQUIPMENT

- COMPRESSOR: Minimum output of 155–185 cubic feet per minute (CFM)
- PUMPS: For "A" drum, an air-powered piston pump of 4:1 ratio (suggested model: Graco, 4:1 Bulldog). For "B" drum, an air-powered diaphragm pump (0–100 psi)



LIQUID BOOT® 500 spray-application effectively seals penetrations, footings, grade beams and other irregular surfaces that are considered critical vapor intrusion pathways.

- HOSES: For "A" drum, ½" wire hose with a solvent resistant core (for diesel cleaning flush), hose rated for 500 psi minimum. For "B" drum, a 3/8" fluid hose rated at only 300 psi may be used.
- SPRAY WAND: Only the spray wand sold by CETCO is approved for the application of LIQUID BOOT®.
- SPRAY TIPS: Replacement tips can be purchased separately from CETCO.

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TESTING DATA

CHEMICAL & PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	RESULT
Elongation	ASTM D 412	800%
Bonded Seam Strength Tests	ASTM D 6392	Passed
Methane Permeability	ASTM D 1434	None Detected
Chemical Resistance:	Tested at 20,000 ppm	<1% weight change
Micro Organism Resistance (Soil Burial):	ASTM D4068-88	Passed
Oil Resistance Test	ASTM D543-87	Passed
Heat Aging:	ASTM D4068-88	Passed
Dead Load Seam Strength	City of Los Angeles	Passed
Environmental Stress-Cracking	ASTM D1693-78	Passed
Water Vapor Permeability	ASTM E96	0.22 perms
Adhesion to Concrete	ASTM C-836	Passed
Hardness	ASTM C-836	Passed
Hydrostatic Head Resistance (Tested at 20 psi)	ASTM D-751	Passed

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