SEMCO LIQUID MEMBRANE™

Waterproof Adhesive

SEMCO
modern seamless surface
SURFACE ENGINEERING COMPANY

Technical Product Information

PRODUCT DESCRIPTION

SEMCO's Liquid Membrane™ is a single component waterproofing and anti-fracture membrane. The SEMCO Liquid Membrane™ is a self-contained elastomeric fluid suspended in a copolymer adhesive, this revolutionary blend enables easy application while providing excellent bridging, and waterproofing. When combined with SEMCO's X-Bond Seamless Stone, two-stage waterproofing is achieved, enabling single source protection.

WATERPROOFING
EXCEEDS ANSI 118.10 WATERPROOFING STANDARDS
SEMCO LIQUID MEMBRANE™
WITHSTANDS UP TO 19 PSI OF HYDROSTATIC PRESSURE
EXISTING SUBSTRATE

ELONGATION
SEMCO LIQUID MEMBRANE™
UP TO 1,300% ELONGATION WITHOUT BREAKING

ACTIVE ADHESION
INTEGRATED CHEMICAL ADHESION ENABLES MECHANICAL CROSS-LINKING TO APPLIED SURFACES*
400+ PSI
SEMCO LIQUID MEMBRANE™
WOOD
CONCRETE
EXISTING SUBSTRATE

CRACK BRIDGING
IT WILL BRIDGE CRACK UP TO 1/4" WIDE WITHOUT ADDITIONAL REINFORCEMENT
1/4"
SEMCO LIQUID MEMBRANE™
X-BOND MIXTURE*
EXISTING SUBSTRATE

SUBSTRATES

- Concrete
- Plywood
- Stone
- Exterior/Interior cladding
- Residential, industrial, and commercial

FEATURES / BENEFITS

- Waterproofing: interior, exterior and below grade
- Crack bridging
- Stabilization
- Anti-fracture

APPLICATION AND SPECIFICATIONS

Application	1/2" nap roller, paint brush or airless sprayer with tip size 21 at 2,500 PSI (2 coats minimum)
Application environment	Apply at temperatures from 50°F to 90°F
Drying time	25 to 30 minutes at 72°F
Cure time	50% in 72 hours, 100% in 7 days
Color	Orange (other colors available upon request)
Chemical type	Latex - crosslink hybrid
Clean up	SEMCO Stone Soap with water
Shelf life	2 years in controlled environment (60°F - 72°F)
Water test	In 35 minutes after application
Packaging (base and color activator)	1 gal., 5 gal. and 55 gal.
VOC content	14 g/L or 0.20%

COVERAGE (sq. ft. per gallon of mixture)

Open pore substrates	25-50
Closed pore substrates	35-65
X-Bond Scratch Coat	100-150

TEST RESULTS

ANSI 118.10 – Breaking Strength (ASTM D751, Procedure B)	Pass
ANSI 118.10 – Dimensional Stability (ASTM D1204)	Pass
ANSI 118.10 – 7-Day Shear Strength (ASTM C482-9.8)	173 PSI
ANSI 118.10 – 7-Day Water Immersion Shear Strength	132 PSI
ANSI 118.10 – 4-Week Shear Strength	234 PSI
ASTM E96 – Water Vapor Transmission	1.52 (g/hr-m2)
ASTM E96 – Water Vapor Transmission: Permeability	0.135 (perm-in)
ISO 37 – Tensile Strength (ASTM D412): Maximum Stress	453 PSI
ISO 37 – Tensile Strength (ASTM D412): Ultimate Elongation	321%
ASTM D42370 – Tensile Strength: Maximum Stress	184 PSI
ASTM D42370 – Tensile Strength: Ultimate Elongation	1,300%

WARRANTY 5 year standard limited warranty, 10 year for non-traffic surfaces

PRECAUTIONS
Always test a small area first to determine ease of application and desired results. When performing a flood test remove all excess water if test is performed prior to 100% curing. Not for use on humans or animals. Be sure to read container label and Safety Data Sheet for additional handling requirements before using this product.
LIMITED WARRANTY NOTICE
SEMCO Modern Seamless Surface warrants that its products will meet their specifications. There are no other warranties, expressed or implied of merchantability or fitness of use. The only obligation of the seller-manufacturer shall be to replace material found to be defective. SEMCO Modern Seamless Surface will not be liable for labor or consequential damage of any kind. The information contained herein is, to the best of our knowledge and belief, true and accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. All chemicals may present unknown health hazards and should be used with caution.

FLOORS | WALLS | POOL DECKS | WATERPROOFING
REDEFINING THE ART OF SURFACE CREATIVITY FOR OVER 25 YEARS USING GREEN MATERIALS