SEMCO LIQUID MEMBRANE ™

SEMCO
modern seamless surface
SURFACE ENGINEERING COMPANY

PRODUCT

The SEMCO 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.

SUBSTRATES

- Concrete
- Plywood / Wood
- Stone
- Exterior/Interior Cladding
- Residential, Industrial and Commercial
- Metal / Aluminium

COVERAGE

COVERAGE sq ft. / gallon @2 coats at 30 mil

Open pore substrates	100 - 150
Closed pore substrates	200 - 250
X-Bond Scratch Coat	150 - 200

USES

Odorless/Low VOC waterproofing that allows you to proceed with your finish within 2 hours of application enabling a speedier project completion.

Water-proofing ✓

Crack Bridging ✓

Repair existing surface cracks and imperfections to ensure clean and smooth finish application.

Integrated chemical adhesion enables mechanical cross-linking to applied surfaces, creating a perfect bond for long lasting protection

Adhesion ✓

Anti-fracture ✓

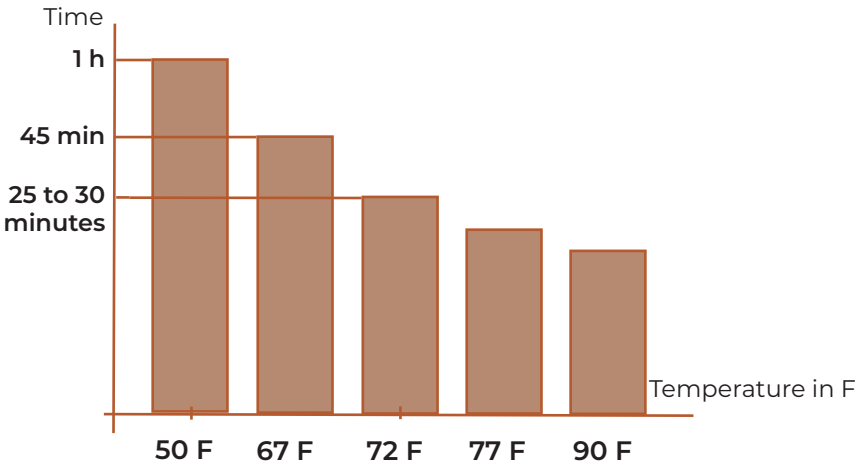
Up to 1300 % stretch and elongation providing future crack suppression for years to come.

Scan to watch application

APPLICATION

Application	1/2 “ nap roller ; Airless sprayer with tip size 21 at 2,500 PSI (minimum 2 coats)
Application environment	Apply at temperatures from 50°F to 90°F
Color	Orange (other colors available on request)
Chemical type	Latex - crosslink hybrid
Clean up	SEMCO Stone Soap with water
Shelf life	2 year in controlled environment (ambient temperature of 60F - 72F)
Packaging	1 gal. | 5 gal. | 55gal.

DRYING / RECOAT TIME



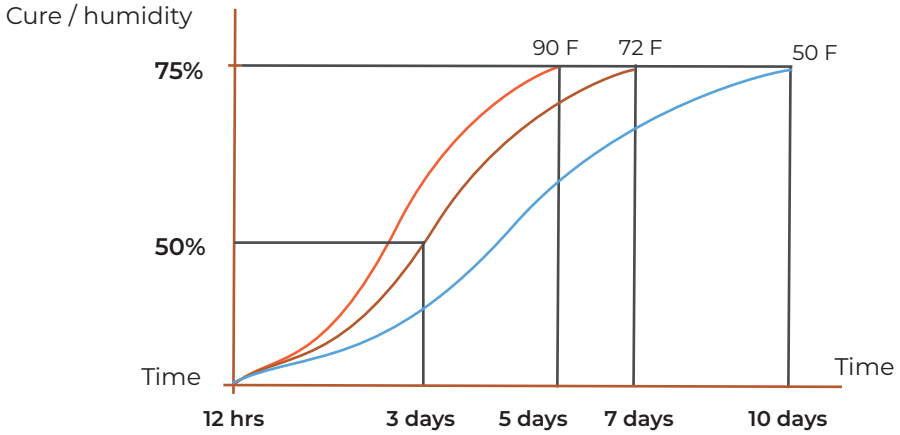
Drying times are affected by temperature and relative humidity. The chart represents guidline values but each project is to be treated individually.

The chart represents the time needed in between coats at specified temperature.

CURE TIME

Curing time is affected by temperature and humidity.

For example at only 50F, a full cure would take 10 days in comparison to at 95 F it would only take 5 days to cure.



ASTM 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 / Shear
ANSI 118.10 - 7-Day Water Immerseion 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	390 PSI
ISO 37 - Tensile Strength (ASTM D412) : Ultimate Elongation	1300 %

PROCEDURE

FRACTURES UP TO 1/16 INCH CRACKS

- Apply minium 2 coats of SEMCO Liquid Membrane™ with a 3/8" roller to achieve a thickness of at least 30 mil to retard future reoccurrence of crack. Wait 30 minutes at 70F before applying next coat.

CRACKS BETWEEN 1/16 - 1/4 INCH

- Apply X-Bond Liquid with brush as a primer coat into the crack. Do not allow to dry. Apply mixture of X-Bond 1 part X-Bond Liquid to 2 1/2 parts of X-Bond Stone to fill up the crack. Allow mixture to dry, ONCE DRY roll 2 coats of SEMCO Liquid Membrane™ to achieve a thickness of at least 30 mil to retard future reoccurrence of crack. 30 min at 70 F between coats.

CRACKS OR OPENINGS EXCEEDING 1/4 INCH

- Roll X-Bond Liquid as a primer coat. Do not Allow to dry. Apply mixture of X-Bond 1 part X-Bond Liquid to 2 1/2 parts of X-Bond Stone into the crack. Allow mixture to dry, ONCE DRY roll 1 coat of SEMCO Liquid Membrane™, while still wet embed Reinforcement Fabric 6" to surface, and immediately roll an additional 2 coats of SEMCO Liquid Membrane™ to fully encapsulate the Fabric Membrane
- When applying the next line of Reinforcement Fabric overlap the new sheet over the existing sheet a minimum of 2"
- Allow surface to dry and proceed to X-Bond Brown Coat in the SEMCO SIP Manual

SEMCO LIQUID MEMBRANE™ PROCEDURE

- Sweep debris off of surface
- Use a 1/2 " roller. Allow any pre-treated areas to dry to the touch. Apply a coat of SEMCO Liquid Membrane™ with brush or roller over substrate including pre-treated areas. Apply second coat of SEMCO Liquid Membrane™ over the first coat of SEMCO Liquid Membrane™. Let topcoat dry to the touch, approximately 1–2 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. SEMCO Liquid Membrane will dry to bright orange color when it's dry to touch. Use additional X-Bond Membrane to seal the defects. Required thickness is 30 mil

SEMCO LIQUID MEMBRANE SPRAY APPLICATION

- Sweep debris off of surface
- The sprayer being used for the application of SEMCO Liquid Membrane™ should be capable of producing a minimum of 2,500 psi (17.2), maximum of 3,300 psi (22.8 MPa) with a flow rate of 0.95 to 1.6 GPM (3.6 to 6.0 LPM) using a 0.521 or a 0.631 reversible tip. Keep the unit filled with SEMCO Liquid Membrane™ to ensure continuous application of liquid. The hose length should not exceed 100' (30 m) in length and 3/8" (9 mm) in diameter. Required thickness is 30 mil

NOTES

- Extended application procedures can be found in the SEMCO SIP Manual.
- Procedures for cleaning of the flooring system during operations can be found in the SEMCO SIP Manual or upon request
- Safety Data Sheets for SEMCO Liquid Membrane™ are available upon request.

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.

Proudly made in USA

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