



NEMO EVALUATIONS REPORT

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Revision 1: 2025-03-27
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SOPREMA, Inc.

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INSPECT

CERTIFY

EVALUATE

VALIDATE

QUALIFY

NEMO EVALUATION REPORT



SOPREMA

SOPREMA, Inc.
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Wadsworth, OH 44281
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SUBJECT: COLPHENE® LM BARR and COLPHENE® LM BARR Spray in Foundation Waterproofing Applications

SCOPE: NEMO Evaluations has evaluated the product described herein for compliance with the [Code sections noted herein](#).

CODE: 2021 International Building Code®

NEMO CATEGORY: Waterproofing

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 14 00 Fluid-Applied Waterproofing

EVALUATED PROPERTIES: Foundation waterproofing

COMPLIANCE STATEMENT: **COLPHENE® LM BARR and COLPHENE® LM BARR Spray Systems**, as produced by **SOPREMA, Inc.**, have demonstrated compliance with the [Code sections noted herein](#) through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

QUALITY ASSURANCE: Evidence of current quality assurance shall be listing and labeling in accordance with the requirements of [NEMO|cert.](#)

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations requires, at minimum, a complete review of this Evaluation Report with each 3-year Code Cycle.

BUILDING PERMIT REQUIREMENTS: As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.

ADVERTISEMENT: "NEMO Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, it shall be displayed in its entirety.

CERTIFICATION OF INDEPENDENCE:

- ✓ NEMO CERT, LLC has not, nor does it intend to acquire or will they acquire, a financial interest in any company manufacturing or distributing products it evaluates.
- ✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- ✓ This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance.





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1. CODES, PROPERTIES AND STANDARDS:

Code	Section	Property	Standard	Year
2021 International Building Code	104.11	Provision for alternative materials	ICC-ES AC29	2020
	1805.3.2	Waterproofing, Walls	N/A	N/A

2. PRODUCTS:

TABLE 1A: EVALUATED SOPREMA FOUNDATION WATERPROOFING PRODUCTS ¹				
TYPE	PRODUCT	EVALUATION STANDARD	MANUFACTURING LOCATION	USE
LIQUID APPLIED:	COLPHENE LM BARR	ICC-ES AC29	Schoolcraft, MI	Liquid-applied waterproofing membrane used for positive-side waterproofing applications of below-grade masonry and concrete foundation walls. The membranes are alternates to the waterproofing materials set forth in IBC Section 1805.3.2.
	COLPHENE LM BARR Spray			
REINFORCEMENT:	POLYFLEECE		Fort Mill, SC	
	SOPRAFLASH-R		Enka, NC	

¹ Certified by ISO/IEC 17065 Certification Entity [NEMO|cert.](#)

TABLE 1B: TYPICAL NOMINAL PROPERTIES					
PROPERTY	STANDARD	RESULTS			
		COLPHENE LM BARR		COLPHENE LM BARR SPRAY	
Resistance to decay:	ASTM E154	60-mil, unreinforced:	9%	60-mil, unreinforced:	2%
- Weight loss after burial					
- Water vapor permeance (after burial), perms	ASTM E96, Procedure A	60-mil, unreinforced:	1 perm	60-mil, unreinforced:	1 perm
		60-mil, reinforced:	1 perm	60-mil, reinforced:	1 perm
- Hydrostatic pressure ² over 1/8-inch crack (after burial) (See Section 4.6)	ASTM C1306	Min. 60-mil, unreinforced:	11 psi	Min. 60-mil, unreinforced:	12 psi
		Min. 60-mil, reinforced:	16 psi	Min. 60-mil, reinforced:	12 psi
		Min. 120-mil, unreinforced:	17 psi		
		Min. 120-mil, reinforced:	20 psi		
Resistance to water	ASTM D2939 Section 15	No blistering or re-emulsification		No blistering or re-emulsification	
Remain in place during application	ASTM C836	Pass 60 ± 5 mils		Pass 60 ± 5 mils	
Adhesion strength over mortar block	ASTM C794 per ASTM C836	3 lbf/inch-width		5 lbf/inch-width	
Low-temperature crack-bridging (See Section 4.6)	ASTM C1305 per ASTM C836	No cracks, splitting, pinholes or loss of adhesion at -15°F		No cracks, splitting, pinholes or loss of adhesion at -15°F	
Extensibility after heat aging	ASTM C1522 per ASTM C836	Min. 60-mil, unreinforced:	No cracking	Min. 60-mil, unreinforced:	No cracking
		Min. 60-mil, reinforced:	No cracking	Min. 60-mil, reinforced:	No cracking

² Maximum allowable hydrostatic pressure reflects 50% of lowest value achieved during testing.



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3. INSTALLATION:

3.1 **COLPHENE® LM BARR and COLPHENE® LM BARR Spray Systems** shall be installed in accordance with **SOPREMA, Inc.** published installation instructions, subject to the [Limitations of Use](#) noted herein. Published installation instructions shall be available onsite at all times during installation.

3.2 Surface Preparation:

The masonry or concrete substrate shall be structurally sound and cured prior to application of the waterproofing membrane, to the satisfaction of SOPREMA and the Authority Having Jurisdiction.

The substrate bonding surface shall be clean, free of voids, oxidation, oils, wax, dust or other bond-breaking substances. Consult **SOPREMA** for appropriate primers when deemed appropriate by the installer or Authority Having Jurisdiction.

Cracks, corners, joints, fasteners, vertical-to-horizontal junctures and penetrations of the walls to which **COLPHENE® LM BARR** or **COLPHENE® LM BARR Spray Systems** are applied shall be made watertight in accordance with the applicable code, to the satisfaction of **SOPREMA** and the Authority Having Jurisdiction, prior to installation of the waterproofing membrane. Use **COLPHENE LM BARR** or **COLPHENE LM BARR Spray** with **POLYFLEECE** or **SOPRAFLASH-R** with **COLPHENE® LM BARR Flashing** (as required) in accordance with **SOPREMA** requirements to facilitate the watertight condition.

3.3 Application:

COLPHENE® LM BARR is roller- or brush-applied:

- Vertical substrates in a single pass at minimum 60-mil wet film thickness.
- Horizontal substrates in a single pass at minimum 120-mil wet film thickness.

COLPHENE® LM BARR Spray is spray-applied:

- Vertical substrates in two (2) coats at minimum 30-mil wet film thickness per coat, for a total minimum 60-mil thickness.
- Horizontal substrates in two (2) coats at minimum 60-mil wet film thickness per coat, for a total minimum 120-mil thickness.

Verify application of all coats using a wet-film gauge. Ensure the application forms a continuous, void-free and pinhole-free membrane. The finished waterproofing membrane shall be allowed to cure minimum 24-hours prior to placement of backfill.

4. LIMITATIONS OF USE:

4.1 This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance. NEMO Evaluation Reports are not to be construed as representing any attributes not specifically listed, nor are NEMO Evaluation Reports to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO CERT, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

4.2 All components in the waterproofing assembly shall have quality assurance surveillance. For components listed herein that are produced by a manufacturer other than the report holder, obtain supporting documentation from the component manufacturer to the satisfaction of the Authority Having Jurisdiction.

4.3 This Evaluation Report pertains to foundation waterproofing components. The foundation itself shall be in accordance with IBC requirements to the satisfaction of the Authority Having Jurisdiction.

4.4 In the event of conflict between this NER and the manufacturer's published instructions, this report governs.

4.5 Application is limited to positive-side (exterior) surfaces of below-grade masonry and concrete foundation walls.

4.6 The maximum allowable hydrostatic pressure and lowest allowable crack-bridging temperature set forth in [Table 1b](#) shall not be exceeded.

-END OF NER-