

# COLPHENE LM BARR

TECHNICAL DATA SHEET 180508SCANE

(supersedes -)



WATERPROOFING

APPLICATIONS

FOUNDATIONS

PLAZA-DECKS

## DESCRIPTION

**COLPHENE LM BARR** is a single component, liquid applied, 98% solids content, STPE moisture curing elastomeric waterproofing membrane. **COLPHENE LM BARR's** technology forms a continuous, tough elastic seal to the substrate that withstands extreme cold and high temperatures without cracking or softening. **COLPHENE LM BARR** is ideal as a positive waterproofing product for sealing foundations or for waterproofing between slabs, in mechanical equipment wells, and for other underground applications. **COLPHENE LM BARR** can also be used for above grade applications, such as waterproofing of plaza-decks or planter boxes.

## SURFACE PREPARATION

- Remove all dirt, oil, loose paint, water, frost, and any other contaminants that could interfere with bonding.
- Ensure that the substrates remains above dew point temperature to prevent condensation.
- When applied on concrete, a minimum curing period of 3 to 7 days is required before the installation of the liquid membrane. Curing time may also vary with exterior temperature, as well as concrete thickness and density.
- Protect all surfaces that are not to be coated with **COLPHENE LM BARR**.
- Use **COLPHENE BARR FLASHING** to repair and level all surface defects and grout lines and/or to seal joints, fasteners, and penetrations

## APPLICATION

1. Keep **COLPHENE LM BARR** materials at room temperature before and during the application.
2. To reinforce transition joints, interior and exterior corners, or excessive damage, use **COLPHENE BARR FLASHING** or **POLYFLEECE** reinforcement.
3. Overall surface application method is not the same for vertical and horizontal applications.
  - 3a. On vertical substrates, apply with a brush, a roller, or a squeegee, two coats with a minimum wet film thickness of 0.8 mm (30 mil) each for a total thickness of 1.6 mm (60 mil) of **COLPHENE LM BARR**. Make sure to alternate the 90° application angle between each coat.
  - 3b. On horizontal substrates, apply with a brush, a roller, or a squeegee, a first coat of **COLPHENE LM BARR** with a minimum wet film thickness of 1.6 mm (60 mil). While **COLPHENE LM BARR** is still fresh, install the **POLYFLEECE** reinforcement over the entire coated surface, ensuring a minimum overlap of 50 mm (2 in.). Apply the second coat of **COLPHENE LM BARR** with the same thickness as the first coat to achieve a total wet film thickness of 3.2 mm (120 mil).

Second coat can be applied as soon as the first coat has skinned. For better results, do not exceed 72 hours between coat applications. The amount of **COLPHENE LM BARR** will vary with substrate roughness and porosity.

- Service temperature: -40 °C to 93 °C (-40 °F to 200 °F)
- Minimum application temperature: 2 °C (35 °F)

Typical curing time is 3 hours for a 0.8 mm (30 mil) application when temperature is at 21 °C (70 °F) with a 50% relative humidity.

**Drying time is longer at lower temperatures and/or with lower relative humidity.**

**FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.**

## RESTRICTION

In above grade applications, **COLPHENE LM BARR** must never be exposed to UV rays for more than 2 consecutive weeks. If such a delay is anticipated, protect the surface with a UV barrier.



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## COVERAGE RATES

Substrate	# Coats	Thickness mm (mil)	Consumption m <sup>2</sup> /L (ft <sup>2</sup> /gal)	Consumption m <sup>2</sup> /19 L (ft <sup>2</sup> /5 gal)
Smooth	1	0.8 (30)	1.3 (54)	24.7 (270)
	1	1.1 (45)	0.8 (36)	15.2 (180)
	1	1.6 (60)	0.7 (27)	12.5 (135)
	1	3.2 (120)	0.3 (13.5)	6.3 (67.5)

(All values are nominal)

## PACKAGING

Specifications	COLPHENE LM BARR
Physical state	Liquid
Colour	Black
Solids by weight	98%
Packaging	19 L (5 gal)
Qty/pal.	36

(All values are nominal)

## PROPERTIES

Properties	Standards	COLPHENE LM BARR
Viscosity, @ 23 °C (73 °F)	ASTM D2983	275 000 cP
Density, @ 25 °C (77 °F)	ASTM D1475	1.31 g/mL (10.9 lbs/gal)
Tack free time	-	60 min.
Hardness (Shore A)	ASTM C836 (ASTM D2240)	57
Weight loss	ASTM C836 (ASTM C1250)	Pass
Water vapour transmission	ASTM E96 (Method B)	5.7 ng/Pa•s•m <sup>2</sup> (0.1 perm)
Film thickness	ASTM C836 (ASTM C1375)	Pass
Adhesion-in-peel	ASTM C836 (ASTM C794)	Pass
Adhesion-in-peel (after water immersion)	ASTM C836 (ASTM C794)	Pass
Low temperature crack bridging	ASTM C836 (ASTM C1305)	Pass
Extensibility after heat aging	ASTM C836 (ASTM C1522)	Pass

(All values are nominal)



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NOTE: All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

TDS\_COLPHENE\_LM\_BARR.indd

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## CLEANING

Clean off any unwanted **COLPHENE LM BARR** before the material hardens using alcohol or a water-free solvent. Wash the equipment as soon as the application is done using solvents, such as mineral spirits, Varsol, xylene, etc.

## STORAGE AND HANDLING

Shelf life: 6 months from the date of manufacture when stored at 21 °C (70 °F) with 50% relative humidity. **COLPHENE LM BARR** must be stored in original, unopened container in a cool, dry environment, away from water, heat and direct sunlight.

For more information, refer to the instructions on the container label and relevant safety data sheet (SDS).



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