



WATERPROOFING

SELF-ADHERING

MANUFACTURED IN CANADA

# COLPHENE<sup>®</sup> 2000

SELF-ADHERING MEMBRANE SERIES  
 CROSS-LAMINATED WITH HIGH PERFORMANCE HDPE CARRIER FILM

TECHNICAL DATA SHEET 171204SME1E

## DESCRIPTION

COLPHENE 2000 self-adhering membrane series are manufactured from a select blend self-adhesive elastomeric SBS modified bitumen compound combined with a high performance co-extruded laminating carrier film. A silicone release paper protects the self-adhesive side while the surface is reinforced by a cross-laminated HDPE film. COLPHENE 2000 membrane series are specially designed to provide and sustain high waterproofing performance within a wide range of temperatures (10 °C to 95 °C) and a durable, water-tight seal for the building envelope protecting substrates from water infiltration during the product's life cycle.

## USER APPLICATIONS

Depending on projects' specifications and requirements, COLPHENE 2000 membrane series are used for many industrial, commercial horizontal & vertical waterproofing covered applications over concrete substrate such as:

- Infrastructure Horizontal & Vertical Waterproofing Applications
- Basement Walls
- Plaza Decks
- Roof Decks
- Balconies & Terraces.
- Planter Boxes & Landscaping
- Wet Areas
- Damp-Proofing (DPC Course) Applications
- Below-Grade Vaults
- External Waterproofing of Sewage tanks, Manholes & Chambers

## INSTALLATION GUIDELINES

- COLPHENE 2000 must always be laid on clean, dry, solid substrates which have previously been primed with SOPREMA'S ELASTOCOL STICK or SOPRADERE PRIMER.
- Concrete must have cured for a minimum of fourteen (14) days prior to installation.
- Conducting an adhesion test is recommended before membrane application.
- Clean, prepare and prime the substrate.
- Ensure that membrane rolls are well aligned.
- Adhere COLPHENE 2000 membrane to the substrate.
- Gradually peel back the remaining release sheet, while ensuring membrane is completely adhered.
- Use a hand-hard roller to apply uniform pressure over the entire surface.
- Apply SOPRAMASTIC LM or SOPRAMASTIC ALU to seal details and critical areas.
- Prior to backfilling, protect COLPHENE 2000 membrane with SOPRABOARD protection board or PROTECTDRAIN drainage boards.
- Use SOPRATAPE-C double-sided self-adhesive tape or an approved cold adhesive.
- For complete installation specification and information please contact your local SOPREMA representative.

## SUSTAINABILITY, HEALTH & ENVIRONMENT

All our activities & growth target sustainable development to minimize the impact on the environment. COLPHENE 2000 membrane series do not contain any substances that might be detrimental to health or to the environment and complies with generally accepted health standards. Please refer to the product's Safety Data Sheet for more information.

## QUALITY CONTROL

COLPHENE 2000 membrane series are manufactured in ISO-9001 certified SOPREMA factories which are audited by Third-Party organizations such as Underwriters Laboratories (UL) and FM Global. The system membranes are manufactured to meet SOPREMA's Quality Management Manual.

## STORAGE & HANDLING

Rolls must be stored in a shaded area in an upright position with the selvedge side on top.

SOPREMA may modify the composition and/or utilization of its products without prior notice.

- Fully Adhered & Highly Flexible Membrane
- Easily Conforms to Substrate Tenacious Conditions
- Excellent Tensile Strength, Resistance to Tear & Puncture
- Dimensionally Stable with Defined Constant Thickness
- High Quality Cross-Laminated Carrier Film

USE WITH SOPREMA'S MEMBRANES	
12" ROLLER	5" ROLLER
CODE: 25081	CODE: 25075
<p>For ideal application results, use SOPREMA's Rollers &amp; Tools to install self-adhering membranes and seal overlaps.</p>	



SOPREMA NORTH AMERICA HQ:  
 1688 Jean-Berchmans-Michaud,  
 Drummondville,  
 Quebec, J2C 8E9,  
 Canada  
 TEL: + 1 800 567-1492,  
 Fax : +1 819 478-8044  
 www.soprema.ca

SOPREMA GROUP HQ:  
 SUBSIDIARY OF SOPREMA S.A.S.,  
 14 Rue de Saint Nazaire  
 CS 60121, F-67025, STRASBOURG  
 CEDEX, France,  
 Tel: +33 (0)3 88 79 84 00,  
 Fax: +33 (0)3 88 79 84 01  
 www.soprema.com

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## PACKAGING

SUPPLY DATA	COLPHENE 2000 1.0	COLPHENE 2000 1.5
Thickness - Gross (Including Release Paper)	1.1 mm	1.6 mm
Thickness - Net (Excluding Release Paper)	1.0 mm	1.5 mm
Roll weight	27 Kg	32 Kg
Dimensions (L/W)	19 m x 1 m	16 m x 1 m
Surface	Cross Laminated Co-Extruded - HDPE Film	Cross-Laminated Co-Extruded HDPE Film
Underface	Silicone Release Paper	Silicone Release Paper
Rolls/pallet	36	30

## TECHNICAL PROPERTIES

PROPERTIES	STANDARD	UNITS	COLPHENE 2000 1.0		COLPHENE 2000 1.5	
			MD	CMD	MD	CMD
Tensile strength (membrane)	ASTM D638	N / mm	5	5	5	5
Tensile strength (film)	ASTM D638	N / mm <sup>2</sup>	50	50	50	50
Elongation (film)	ASTM D638	%	210	160	210	160
Tear strength	ASTM D1004	N / mm	350	330	350	330
Adhesion to primed concrete	ASTM D1000	N / mm	1.85		1.85	
Adhesion to self	ASTM D1000	N / mm	1.85		1.85	
Puncture resistance	ASTM E154	N	290		300	
Puncture resistance - deflection	ASTM E154	mm	65		65	
Water resistance (24h)	ASTM D570	%	0.14		0.14	
Water resistance (35D)	ASTM D570	%	0.5		0.5	
Environmental resistance	ASTM D543	-	Conforms		Conforms	
Moisture vapour transmission	ASTM E96 (procedure B)	g/m <sup>2</sup> •24h	0.3		0.3	
Hydrostatic pressure resistance	ASTM D5385	m	110		110	
Lateral water migration	ASTM D5385 (modified)	m	110		110	

- (All values are Nominal)
- All Values are subject to variation tolerance not exceeding 15%
- Deflection may vary according to equipment used for testing

MD = Machine Direction (Longitudinal)  
 CMD = Cross Machine Direction (Transverse)

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