



WATERPROOFING

THERMOFUSIBLE

FOUNDATIONS

M I D D L E E A S T

# COLPHENE FLAM 10

SBS MODIFIED BITUMEN MEMBRANES  
REINFORCED WITH A POLYESTER CARRIER

TECHNICAL DATA SHEET CFLM10\_190507SME1E001

## DESCRIPTION

COLPHENE FLAM 10 is a series of reinforced membranes especially designed for below grade waterproofing and tanking applications. COLPHENE FLAM 10 line of products are manufactured from high performance SBS modified enriched bitumen combined with a high strength non-woven polyester reinforcement. This combination provides thermal stability of the bitumen compound coupled with high puncture, tear and tensile strength that reflects on the long service-life of the COLPHENE FLAM 10 line of products. COLPHENE FLAM 10 product line is manufactured and supplied in various thicknesses, physical and mechanical properties to comply with the most internationally recognized durability standards of below grade waterproofing membranes.

## USER APPLICATIONS

Designed to fit for single-ply or two-ply waterproofing assemblies, COLPHENE FLAM 10 membranes are used in horizontal and vertical waterproofing for the following general applications:

- General tanking waterproofing
- Foundation waterproofing
- External waterproofing of water tanks
- External waterproofing of water retaining structures
- Footings and slab-on-grade waterproofing

## INSTALLATION GUIDELINES

- **Preparation:** Surfaces must be dry and free from loose particles, form-work curing products, irregularities and any protruding elements that might be damaging to the membrane.
- A minimum curing time of concrete of 10 to 14 days is generally required. Curing time also depends on density and thickness of the concrete.
- Structures to be covered by COLPHENE FLAM 10 should have a surface profile between 3 to 5 (CSP).
- All holes or voids wider than 5 mm must be filled with a bitumen compound or fast-setting concrete depending on the surface condition.
- **Priming:** Apply a coat of SOPRADERE HT primer to the surface that will receive COLPHENE FLAM 10 membrane. Maintain coverage as per primer's data sheet.
- **Field Membrane Installation (general):** Unroll the membrane roll prior to torching for pre-conditioning and to align the membrane properly to the perimeters of the area starting at the lowest point of the slope.
- **Detailing:** For more information on detail treatment refer to SOPREMA's installation guide or consult your local SOPREMA representative.

## SUSTAINABILITY, HEALTH & ENVIRONMENT

All our activities & growth target sustainable development to minimize the impact on the environment. COLPHENE FLAM 10 does 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.

Variety of Thickness & Surface Finish

Three Grades of Reinforcement

High Physical & Mechanical Properties

High Resistance to Tear & Puncture

High Resistance to Hydraulic Pressure

Wide Temperature Tolerance

Chlorine Free

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

■ All products manufactured by SOPREMA for Manufacturing Waterproofing Materials LLC comply with the description & properties indicated in the technical data sheet that was current on the date of manufacture.



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MIDDLE EAST

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PACKAGING & SUPPLY

PROPERTY	COLPHENE FLAM 10	
	180 3P	180 4P
Reinforcement	non woven polyester 180 g/m²	
Thickness	3.0 mm	4.0 mm
Roll dimensions	1 x 10 m	1 x 10 m
Roll weight	42 kg	53 kg
Rolls per pallet	28 Rolls / Pallet	23 Rolls / Pallet
Top face	Polyethylene Film	Polyethylene Film
Underface	Thermofusible plastic film	

PROPERTY	COLPHENE FLAM 10	
	200 4P	200 5P
Reinforcement	non woven polyester 200 g/m²	
Thickness	4.0 mm	5.0 mm
Roll dimensions	1 x 10 m	1 x 10 m
Roll weight	53 kg	66 kg
Rolls per pallet	23 Rolls / Pallet	16 Rolls / Pallet
Top face	Polyethylene Film	Polyethylene Film
Underface	Thermofusible plastic film	

PROPERTY	COLPHENE FLAM 10	
	250 4P	250 5P
Reinforcement	non woven polyester 250 g/m²	
Thickness	4.0 mm	5.0 mm
Roll dimensions	1 x 10 m	1 x 10 m
Roll weight	53 kg	66 kg
Rolls per pallet	23 Rolls per Pallet	16 Rolls per Pallet
Surface	Polyethylene Film	Polyethylene Film
Underface	Thermofusible plastic film	

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## TECHNICAL PROPERTIES

PROPERTIES	STANDARDS	COLPHENE FLAM 10 180	COLPHENE FLAM 10 200	COLPHENE FLAM 10 250
Tensile strength, MD/CMD	EN 12311-1	800 / 650 N/5 cm	900 / 700 N/5 cm	1000 / 800 N/5 cm
Elongation at max load, MD/CMD	EN 12311-1	45 / 45 %	45 / 45 %	45 / 45 %
Cold temperature flexibility	EN 1109	Pass at (-10) °C	Pass at (-10) °C	Pass at (-10) °C
Flow resistance at elevated temp.	EN 1110	100 °C	100 °C	100 °C
Dimensional stability	EN 1107	≤ 0.5 %	≤ 0.5 %	≤ 0.5 %
Resistance to static puncture	EN 12730	L4 (25 kg)	L4 (25 kg)	L4 (25 kg)
Tear strength, MD/CMD	ASTM D5147	500 / 400 N	550 / 400 N	600 / 450 N
Nail tear resistance, MD/CMD	EN 12310-1	200 / 200 N	200 / 200 N	220 / 240 N
Water tightness	EN 1928:2000	Conforms	Conforms	Conforms
Shear resistance of joints	EN 12317-1	≥ 500 N/5 cm	≥ 650 N/5 cm	≥ 850 N/5 cm
Water absorption at 24 hr	ASTM D570	< 0.5 %	< 0.5 %	< 0.5 %
Resistance to hydrostatic pressure	ASTM D5385	> 70 M	> 70 M	> 70 M

(All values are nominal)  
All values are subject to UEAtc tolerance.  
This product does not contain asbestos or tar constituents.  
MD = Machine Direction. CMD = Cross Machine Direction

## QUALITY CONTROL

COLPHENE FLAM 10 membranes are manufactured in ISO-9001 certified SOPREMA factories which are audited by Third-Party organizations. Our products are manufactured to meet SOPREMA’s Quality Management Manual.

## STORAGE & HANDLING

Rolls must be stored upright with the selvedge side upwards. For outdoor storage, protect the membrane with an opaque protection cover after removal of the delivery packaging.

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