WATERPROOFING

THERMOFUSIBLE

ROOFS

MIDDLE EAST

SOPRALENE FLAM 10

SBS MODIFIED BITUMEN MEMBRANES

REINFORCED WITH A POLYESTER CARRIER

TECHNICAL DATA SHEET SLNEFLM10_190507SME1E001

DESCRIPTION

SOPRALENE FLAM 10 is a series of reinforced membranes specially designed for roofing applications. SOPRALENE FLAM 10 line of products are manufactured from high performance SBS modified bitumen combined with a high strength non-woven polyester reinforcement . This select combination provides distinguished physical and mechanical properties to the finished membrane that includes thermal stability of the bitumen compound coupled with high puncture, tear and tensile strength. This combination reflects on the long service-life of the SOPRALENE FLAM 10 line of products.

- 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

USER APPLICATIONS

SOPRALENE FLAM 10 products are specifically designed for roofing applications. Intended to fit for use in single-ply or two-ply waterproofing assemblies, SOPRALENE FLAM 10 membranes are used in horizontal and vertical waterproofing for the following general applications:

- Inverted roofing systems
- Conventional roofing systems
- Plaza decks
- Terraces
- Light traffic exposed roofing (SOPRALENE FLAM 10 Cap-Sheets)

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 the density and thickness of concrete.
- Structures to be covered by SOPRALENE FLAM 10 must have a surface profile between 3 - 5 (CSP).
- All cracks, holes or voids more than 5 mm must be filled with a bitumen compound (SOPRAMASTIC LM) or fast-setting concrete depending on the surface condition.
- **Priming:** Apply a coat of SOPRADERE HT primer to the surface that will receive SOPRALENE 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.
- Unroll the starter membrane making sure to position the drain in the center of the membrane.
- End-lap joints must be at least 900 mm from the drain to prevent ending up with a lap-joint in the middle of the drain and help in proper alignment of the cap sheet in a two-ply system.
- **Embedding Granules:** When using SOPRALENE FLAM 10 (Mineral Slated) membrane in a two-ply system ensure to embed the granules at the end lap joints by heating the mineral surface of the membrane with a torch to soften the bitumen. When the bitumen becomes shiny and the mineral slates begin to sink slightly, stop torching and embed by a trowel. This will ensure a bitumen-to-bitumen bond at the end-lap joints.
- **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. SOPRALENE 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.

ME_SOPRALENE FLAM 10 / JE / 07/19 / DF

PLANT
Mussafah Industrial Zone , Abu Dhabi, United Arab Emirates,
P.O Box 39196
TEL: +971 2550 3383,
FAX: +971 2550 3382
www.soprema.ae ,
info@soprema.ae

SOPREMA NORTH AMERICA HQ:
1688 Jean-Berchmans-Michaud,
Drummondville,
Quebec, J2C 8E9, Canada
TEL: 1 800 567-1492,
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

WATERPROOFING

THERMOFUSIBLE

ROOFS

MIDDLE EAST

SOPRALENE FLAM 10

SBS MODIFIED BITUMEN MEMBRANES

REINFORCED WITH A POLYESTER CARRIER

TECHNICAL DATA SHEET SLNEFLM10_190507SME1E001

PACKAGING & SUPPLY

PROPERTY	SOPRALENE FLAM 10		
	180 3P	180 4P	180 4F
Reinforcement	NON WOVEN POLYESTER 180 g/m²		
Thickness	3.0 mm	4.0 mm	4.0 mm
Roll dimensions	1 x 10 m	1 x 10 m	1 x 10 m
Roll weight	42 kg	53 kg	53 kg
Rolls per pallet	28 Rolls / Pallet	23 Rolls / Pallet	23 Rolls / Pallet
Top face	Polyethylene Film	Polyethylene Film	Slate Flakes
Underface	Thermofusible plastic film		

PROPERTY	SOPRALENE FLAM 10 200			
	200 4P	200 5P	200 4F	200 5F
Reinforcement	NON WOVEN POLYESTER 200 g/m²			
Thickness	4.0 mm	5.0 mm	4.0 mm	5.0 mm
Roll dimensions	1 x 10 m	1 x 10 m	1 x 10 m	1 x 10 m
Roll weight	53 kg	66 kg	53 kg	66 kg
Rolls per pallet	23 Rolls / Pallet	16 Rolls / Pallet	23 Rolls / Pallet	16 Rolls / Pallet
Top face	Polyethylene Film	Polyethylene Film	Slate Flakes	Slate Flakes
Underface	Thermofusible plastic film			

PROPERTY	SOPRALENE FLAM 10 250			
	250 4P	250 5P	250 4F	250 5F
Reinforcement	NON WOVEN POLYESTER 250 g/m²			
Thickness	4.0 mm	5.0 mm	4.0 mm	5.0 mm
Roll dimensions	1 x 10 m	1 x 10 m	1 x 10 m	1 x 10 m
Roll weight	53 kg	66 kg	53 kg	66 kg
Rolls per pallet	23 Rolls / Pallet	16 Rolls / Pallet	23 Rolls / Pallet	16 Rolls / Pallet
Top face	Polyethylene Film	Polyethylene Film	Slate Flakes	Slate Flakes
Underface	Thermofusible plastic film			

- *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 and properties indicated in the technical data sheet that was current on the date of manufacture.*

SOPREMA

PLANT
Mussafah Industrial Zone , Abu Dhabi, United Arab Emirates,
P.O Box 39196
TEL: +971 2550 3383,
FAX: +971 2550 3382
www.soprema.ae ,
info@soprema.ae

SOPREMA NORTH AMERICA HQ:
1688 Jean-Berchmans-Michaud,
Drummondville,
Quebec, J2C 8E9, Canada
TEL: 1 800 567-1492,
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

WATERPROOFING

THERMOFUSIBLE

ROOFS

MIDDLE EAST

SOPRALENE FLAM 10

SBS MODIFIED BITUMEN MEMBRANES

REINFORCED WITH A POLYESTER CARRIER

TECHNICAL DATA SHEET SLNEFLM10_190507SME1E001

TECHNICAL PROPERTIES

PROPERTY	STANDARDS	SOPRALENE FLAM 10 180	SOPRALENE FLAM 10 200	SOPRALENE FLAM 10 250
Tensile strength, MD/CMD	EN 12311-1	750 / 550 N/5 cm	800 / 650 N/5 cm	1000 / 800 N/5 cm
Elongation at max load, MD/CMD	EN 12311-1	40 / 40 %	45 / 45 %	45 / 45 %
Cold temperature flexibility	EN 1109	Pass @ (-10) °C	Pass @ (-10) °C	Pass @ (-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	L_3 (15 kg)	L_3 (15 kg)	L_4 (25 kg)
Resistance to dynamic puncture	UEAtc	I_3	I_3	I_4
Tear strength, MD/CMD	ASTM D5147	450 / 350 N	500 / 400 N	550 / 400 N
Nail tear resistance, MD/CMD	EN 12310-1	170 / 180 N	200 / 200 N	220 / 240 N
Water tightness	EN 1928 : 2000	Conforms	Conforms	Conforms
Shear Resistance of Joints	EN 12317-1	≥ 500 N / 5cm	≥ 650 N / 5cm	≥ 800 N / 5cm
Water Absorption @ 24 hr	ASTM D570	< 0.5 %	< 0.5 %	< 0.5 %

(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

SOPRALENE 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 outoor storage, protect the membrane with an opaque protective cover after removal of the delivery packaging.

- *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 and properties indicated in the technical data sheet that was current on the date of manufacture.*

SOPREMA

PLANT
Mussafah Industrial Zone , Abu Dhabi, United Arab Emirates,
P.O Box 39196
TEL: +971 2550 3383,
FAX: +971 2550 3382
www.soprema.ae ,
info@soprema.ae

SOPREMA NORTH AMERICA HQ:
1688 Jean-Berchmans-Michaud,
Drummondville,
Quebec, J2C 8E9, Canada
TEL: 1 800 567-1492,
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