



WATERPROOFING

THERMOFUSIBLE

FOUNDATIONS

M I D D L E E A S T

# ELASTOFORT 05

## SBS MODIFIED BITUMEN MEMBRANES REINFORCED WITH POLYESTER

TECHNICAL DATA SHEET EFORT05\_190507SME1E001V

### DESCRIPTION

ELASTOFORT 05 is a series of reinforced membranes specially designed for various waterproofing applications. ELASTOFORT 05 line of products are manufactured from elasto-plastomeric compound combined with 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.

### USER APPLICATIONS

ELASTOFORT 05 products are intended to fit for use in single-ply or two-ply waterproofing assemblies, ELASTOFORT 05 membranes are used in horizontal and vertical waterproofing applications.

Variety of Thickness & Surface Finish

Three Grades of Reinforcement

Good Physical & Mechanical Properties

Wide Temperature Tolerance

Chlorine Free

### 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 ELASTOFORT 05 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 ELASTOFORT 05 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 ELASTOFORT 05 (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. ELASTOFORT 05 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.

- 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.



**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

FOUNDATIONS

M I D D L E E A S T

# ELASTOFORT 05

SBS MODIFIED BITUMEN MEMBRANES  
REINFORCED WITH POLYESTER

TECHNICAL DATA SHEET EFORT05\_190507SME1E001V

## PACKAGING & SUPPLY

| PROPERTY         | ELASTOFORT 05 160            |                      |
|------------------|------------------------------|----------------------|
|                  | ELASTOFORT 05 160 3P         | ELASTOFORT 05 160 4P |
| Reinforcement    | NON WOVEN POLYESTER 160 g/m2 |                      |
| Thickness        | 3.0 mm                       | 4.0 mm               |
| Roll dimensions  | 1 x 10 m                     | 1 x 10 m             |
| Roll weight      | 42 kg                        | 56 kg                |
| Rolls per pallet | 28 Rolls / Pallet            | 23 Rolls / Pallet    |
| Top face         | Polyethylene Film            | Polyethylene Film    |
| Underface        | Thermofusible plastic film   |                      |

| PROPERTY         | ELASTOFORT 05 180            |                      |
|------------------|------------------------------|----------------------|
|                  | ELASTOFORT 05 180 3P         | ELASTOFORT 05 180 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                        | 56 kg                |
| Rolls per pallet | 28 Rolls / Pallet            | 23 Rolls / Pallet    |
| Top face         | Polyethylene Film            | Polyethylene Film    |
| Underface        | Thermofusible plastic film   |                      |

| PROPERTY         | ELASTOFORT 05 200            |                      |
|------------------|------------------------------|----------------------|
|                  | ELASTOFORT 05 200 3P         | ELASTOFORT 05 200 4P |
| Reinforcement    | NON WOVEN POLYESTER 200 g/m2 |                      |
| Thickness        | 3.0 mm                       | 4.0 mm               |
| Roll dimensions  | 1 x 10 m                     | 1 x 10 m             |
| Roll weight      | 42 kg                        | 56 kg                |
| Rolls per pallet | 28 Rolls / Pallet            | 23 Rolls / Pallet    |
| Top face         | Polyethylene Film            | Polyethylene Film    |
| 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.



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

FOUNDATIONS

M I D D L E E A S T

# ELASTOFORT 05

SBS MODIFIED BITUMEN MEMBRANES  
REINFORCED WITH POLYESTER

TECHNICAL DATA SHEET EFORT05\_190507SMEIE001V

## TECHNICAL PROPERTIES

| PROPERTY                          | STANDARDS  | ELASTOFORT 05 160        | ELASTOFORT 05 180        | ELASTOFORT 05 200        |
|-----------------------------------|------------|--------------------------|--------------------------|--------------------------|
| Tensile strength, MD/CMD          | EN 12311-1 | 600 / 400 N / 5 cm       | 750 / 550 N / 5 cm       | ≥ 800 / 650 N/5 cm       |
| Elongation at max load, MD/CMD    | EN 12311-1 | 30 / 35 %                | 45 / 45 %                | 45 / 45 %                |
| Cold temperature flexibility      | EN 1109    | Pass @ (-5) °C           | Pass @ (-5) °C           | Pass @ (-5) °C           |
| Flow resistance at elevated temp. | EN 1110    | 100 °C                   | 100 °C                   | 100 °C                   |
| Tear strength, MD/CMD             | EN 12310-1 | 400 / 300 N              | 500 / 350 N              | 500 / 400                |
| Water Absorption @ 24 Hours       | ASTM D570  | ≤ 0.5 %                  | ≤ 0.5 %                  | ≤ 0.5 %                  |
| Resistance to static puncture     | EN 12730   | L <sub>3</sub> ( 15 kg ) | L <sub>3</sub> ( 15 kg ) | L <sub>3</sub> ( 15 kg ) |
| Resistance to hydrostatic         | ASTM D5385 | > 50 M                   | > 50 M                   | > 50 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

ELASTOFORT 05 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 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.



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