

SOPRALENE® 250 FR GR HC

Fire Retardant, Granulated, Hybrid Cap SBS-Modified Bitumen Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10304 - REV 230627

PRODUCT NUMBERS:

- 01957 - **32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Standard white granules (WH)**

Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.

DESCRIPTION & FEATURES:

SOPRALENE 250 FR GR HC (fire retardant, granulated, hybrid cap) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply. **SOPRALENE 250 FR GR HC** is reinforced with a tough, dimensionally stable non-woven polyester mat that is saturated and coated on both sides with a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen.

- SBS rubber polymer enhances the asphalt blend adding elongation, elasticity and flexibility to the sheet
- Reinforced with a non-woven polyester mat that increases the membrane's strength and puncture resistance
- Granule surfacing provides added resistance to weathering and foot traffic
- Sanded-backside surfacing improves bonding strength between system layers
- Meets or exceeds requirements of ASTM D6164, Type II, Grade G

USES:

SOPRALENE 250 FR GR HC is used as a component in the following systems:

| USE | OVERLYING MATERIAL |
|-------------------------------|--------------------|
| Field Cap Ply ¹ | N/A |
| Flashing Cap Ply ¹ | N/A |

¹ Refer to SOPREMA's SBS-Modified Bitumen Roofing Membrane Technical Manual

APPLICATION:



COLD
ADHESIVE

Prior to installation, unroll **SOPRALENE 250 FR GR HC** onto the roof surface and allow to relax. Place **SOPRALENE 250 FR GR HC** in desired position and back roll the product. Apply approved cold adhesive following manufacturer specifications. **SOPRALENE 250 FR GR HC** is then placed into the cold adhesive and rolled with a weighted roller to ensure adhesion.

Refer to the SOPREMA SBS-Modified Bitumen Membrane Roofing Technical Manual for complete application guidelines.

STORAGE:

Store rolls in an upright position to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture.



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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES

| PROPERTY | VALUE |
|------------------------|---|
| Elastomeric bitumen | Proprietary blend of bitumen and SBS polymers |
| ASTM Standard | D6164, Type II, Grade G |
| Reinforcement | Non-woven polyester |
| Top surfacing | Ceramic coated granules |
| Back surfacing | Sanded |
| Selvage surfacing | Sanded |
| Selvage width, in (mm) | 3 (76) |

DIMENSIONS & MASS

| PROPERTY | VALUE | ASTM TEST METHOD |
|--|---------------|------------------|
| Length, ft (m) | 32.8 (10.0) | D5147 |
| Width, in (m) | 39.4 (1.0) | D5147 |
| Coverage,* ft ² (m ²) | 97.9 (9.1) | D5147 |
| Roll weight, lb (kg) | 111 (50.3) | D5147 |
| Rolls per pallet | 25 | D5147 |
| Pallet weight, lb (kg) | 2,825 (1,280) | D5147 |
| Thickness (minimum), mils (mm) | 142 (3.6) | D5147 |
| Thickness (nominal), mils (mm) | 150 (3.8) | D5147 |
| Thickness (selvage), mils (mm) | 118 (3.0) | D5147 |
| Net mass per unit area, lb/100 ft ² (g/m ²) | 102 (4,993) | D5147 |
| Bottom coating thickness, mils (mm) | ≥ 40 (1.0) | D5147 |

*Coverage rate as reported assumes installation using side and end lap recommendations.

PHYSICAL PROPERTIES

| PROPERTY | MD | XMD | ASTM TEST METHOD |
|--|------------|------------|------------------|
| Peak load @ 0°F (-18°C), lbf/in (kN/m) | 160 (28.0) | 110 (19.3) | D5147 |
| Elongation at peak load @ 0°F (-18°C), % | 30 | 35 | D5147 |
| Peak load @ 73.4°F (23°C), lbf/in (kN/m) | 135 (23.6) | 100 (17.5) | D5147 |
| Elongation at peak load @ 73.4°F (23°C), % | 55 | 60 | D5147 |
| Ultimate Elongation @ 73.4°F (23°C), % | 60 | 75 | D5147 |
| Tear strength @ 73.4°F (23°C), lbf (N) | 165 (734) | 120 (534) | D5147 |
| Low temperature flexibility, °F (°C) | -15 (-26) | -15 (-26) | D5147 |
| Dimensional stability, % | < 0.5 | < 0.5 | D5147 |
| Compound stability, °F (°C) | 240 (116) | 240 (116) | D5147 |
| Granule embedment, g | 1.5 avg | | D5147 |

Data is represented by average values, unless noted otherwise.

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SUSTAINABILITY



COOL ROOF RATING

| PRODUCT | SOLAR REFLECTANCE | | THERMAL EMITTANCE | | SRI | |
|--|-------------------|----------------|-------------------|----------------|---------------|--------------|
| SOPRALENE 250 FR GR HC Standard white granules (WH) | 0.26 initial | 0.23 3 year | 0.87 initial | 0.90 3 year | 25 initial | 23 3 year |

* CRRRC Rapid Ratings. Refer to Cool Roof Ratings Council (CRRRC).

TESTING & APPROVALS:



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.