

# SOPRALENE®

## 250 FR GR HC

SOPRALENE® 250 FR GR HC  
PRODUCT # 01957 (WH)  
01592 (SG)

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

SOPRALENE 250 FR GR HC (fire retardant, granulated, hybrid cap) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. SOPRALENE 250 FR GR HC is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with tough, dimensionally stable non-woven polyester mat specifically designed for use as a cap sheet over built up roofing. The topside is surfaced with ceramic coated granules and the underside is surfaced with fine mineral aggregate to facilitate cold adhesive and hot asphalt applications.

*SOPRALENE 250 FR GR HC includes the standard white granules. Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.*

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SOPRALENE 250 FR GR HC.

### APPLICATION

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 or hot asphalt following manufacturer specifications. SOPRALENE 250 FR GR HC is then rolled into the cold adhesive or hot asphalt and subsequently broomed in if utilizing hot asphalt or rolled with a weighted roll if utilizing cold adhesives. Subsequent approved inter-ply or cap ply membranes are applied to SOPRALENE 250 FR GR HC via cold adhesive or hot asphalt. Refer to the SOPREMA SBS Roofing Manual for additional application guidelines.



APPLICATION



COLD ADHESIVE



HOT ASPHALT

### COOL ROOF RATING\*

| PRODUCT  | SOLAR REFLECTANCE |                 | THERMAL EMITTANCE |                 | SRI           |               |
|--|-------------------|-----------------|-------------------|-----------------|---------------|---------------|
| SOPRALENE 250 FR GR HC<br>Standard white granules          | 0.27<br>initial   | 0.25<br>3 year  | 0.87<br>initial   | 0.89<br>3 year  | 27<br>initial | 25<br>3 year  |
| SOPRALENE 250 FR GR HC<br>Highly reflective white granules | 0.70<br>initial   | 0.62*<br>3 year | 0.90<br>initial   | 0.90*<br>3 year | 86<br>initial | 75*<br>3 year |

\* CRRC Rapid Ratings. Refer to Cool Roof Ratings Council (CRRC).

QUICK FACTS

| ASTM STANDARD            | LENGTH (ft)      | WIDTH (in)      | COVERAGE* (ft²)  | THICKNESS (mils) | ROLL WEIGHT (lb) | ROLLS/PALLET (pallet weight)  |
|--------------------------|------------------|-----------------|------------------|------------------|------------------|-------------------------------|
| D6164<br>Type 2, Grade G | 32.8<br>(10.0 m) | 39.4<br>(1.0 m) | 97.9<br>(9.1 m²) | 160<br>(4.0 mm)  | 107<br>(48.4 kg) | 25<br>(2,720 lb/<br>1,233 kg) |

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



**SOPREMA®**

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## TECHNICAL INFORMATION & TESTING

| SHEET PROPERTIES    |   |
|---------------------|---|
| Reinforcement       | Non-woven polyester                           |
| Elastomeric bitumen | Proprietary blend of bitumen and SBS polymers |
| Surfacing           | Ceramic coated granules                       |
| Back surfacing      | Sanded  |
| Selvage surface     | Sanded  |
| Side lap, in (mm)   | 3 (76)  |
| End lap, in (mm)    | 6 (152)                                       |

| DIMENSIONS & MASS   |            |             |
|---|------------|-------------|
| PROPERTY  |            | TEST METHOD |
| Thickness, mils (mm)  | 160 (4.0)  | ASTM D5147  |
| Thickness @ selvage, mils (mm)                                    | 118 (3.0)  | ASTM D5147  |
| Net mass per unit area, lb/100ft <sup>2</sup> (g/m <sup>2</sup> ) | 102 (4993) | ASTM D5147  |

| PHYSICAL PROPERTIES                        |                           |            |             |
|--|---------------------------|------------|-------------|
| PROPERTY                                   | MD                        | XMD        | TEST METHOD |
| Peak load @ 0°F (-18°C), lbf/in (kN/m)     | 160 (28.0)                | 110 (19.3) | ASTM D5147  |
| Elongation at peak load @ 0°F (-18°C), %   | 30                        | 35         | ASTM D5147  |
| Peak load @ 73.4°F (23°C), lbf/in (kN/m)   | 135 (23.6)                | 100 (17.5) | ASTM D5147  |
| Elongation at peak load @ 73.4°F (23°C), % | 55                        | 60         | ASTM D5147  |
| Ultimate elongation @ 73.4°F (23°C), %     | 60                        | 75         | ASTM D5147  |
| Tear strength @ 73.4°F (23°C), lbf (N)     | 165 (734)                 | 120 (534)  | ASTM D5147  |
| Low temperature flexibility, °F (°C)       | -15 (-26)                 | -15 (-26)  | ASTM D5147  |
| Dimensional stability, %                   | < 0.5                     | < 0.5      | ASTM D5147  |
| Compound stability, °F (°C)                | 240 (116)                 | 240 (116)  | ASTM D5147  |
| Granule embedment, g                       | < 1.5 avg; 2.0 max for SG |            | ASTM D5147  |

\*Data is represented by average values, unless noted otherwise.

## TESTING & APPROVALS

