

SENTINEL® KEE P200 HFB

Polyester Reinforced, 80 mil, Fleece-Backed KEE Membrane

PRODUCT DATA SHEET PDS10301 - REV 240108



APPLICATIONS

ROOFING

PRODUCT NUMBERS:

- P405 - 10 x 65 ft (3.0 x 19.8 m) - Roll (White)

DESCRIPTION & FEATURES:

SENTINEL KEE P200 HFB is a high-performance, fleece-backed, thermoplastic polyvinyl chloride (PVC) membrane designed for both steep and low slope applications. **SENTINEL KEE P200 HFB** is reinforced with a tenacious, anti-wicking, weft-inserted polyester fabric that is encapsulated on both sides with a proprietary thermoplastic PVC formulation that utilizes DOW® ELVALOY™ KEE (Ketone Ethylene Ester) Terpolymer. **SENTINEL KEE P200 HFB** incorporates a heavy fleece-backed underside and is available in white.

- Formulated utilizing only the highest quality polymers and plasticizers to produce consistent and reliable welds in a variety of ambient temperatures
- Reinforced with a high-density, polyester scrim that provides superior breaking strength as well as excellent puncture and fatigue resistance
- Heavy fleece backing helps eliminate the telegraphing of fasteners and insulation seams
- Excellent resistance to inorganic chemicals and bacterial growth
- Meets or exceeds requirements of ASTM D4434, Type III

USES:

SENTINEL KEE P150 HFB is used as a component in the following systems:

USE	OVERLYING MATERIAL
Field Membrane ¹	N/A

¹ Refer to SOPREMA's KEE Membrane Roofing Technical Manual

APPLICATION:



FULLY
ADHERED



MECHANICALLY
FASTENED

SENTINEL KEE P200 HFB can be mechanically attached or fully adhered. Please refer to the specific adhesive data sheet for application guidelines. For mechanically attached systems, please consult your SOPREMA KEE Membrane Roofing Technical Manual for specific fastening patterns. All laps must be heat-welded to ensure a watertight seal.

Contact SOPREMA or refer to published guidelines for additional details and application requirements.

STORAGE:

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

TESTING & APPROVALS:



FLORIDA BUILDING CODE

MIAMI-DADE COUNTY
APPROVED

NOA # 20-0825.11

WARRANTY:

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



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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
Technology	Thermoplastic polyvinyl chloride (PVC) containing KEE
ASTM standard	ASTM D4434, Type III
Reinforcement	Polyester (18 x 9, weft inserted)
Back surfacing	Heavy fleece-backed (5.5 oz/yd ²)

DIMENSIONS & MASS		
PROPERTY	VALUE	ASTM TEST METHOD
Length, ft (m)	65 (19.8)	D4434
Width, ft (m)	10 (3.0)	D4434
Coverage,* ft ² (m ²)	650 (60.4)	D4434
Roll weight, lb (kg)	354 (160.6)	D4434
Rolls per pallet	10	D4434
Pallet weight, lb (kg)	3,690 (1,674)	D4434
Thickness, mils (mm)	80 (2.0)	D4434
Thickness over scrim, mils (mm)	40 (1.0)	D4434
Net mass per unit area, lb/100 ft ² (g/m ²)	49 (2,368)	D4434

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

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	ASTM TEST METHOD
Peak load, lbf/in (kN/m)	500 (88)	350 (61)	D751
Elongation at peak load, %	30	30	D751
Seam strength (min 75% of breaking strength)	Pass	Pass	D751
Tear strength, lbf (N)	115 (512)	65 (289)	D751, Proc. B
Trapezoidal tear, lbf (N)	185 (823)	155 (689)	D751
Low temperature flexibility, °F (°C)	-40 (-40)	-40 (-40)	D2136
Dimensional stability, %	< 0.1	< 0.1	D1204
Change in weight after immersion in water, %	< 3	< 3	D570
Static puncture resistance, @ ≥ 33 lbf (15 kg), minimum	Pass	Pass	D5602
Dynamic puncture resistance, @ 10 J, minimum	Pass	Pass	D5635

Data is represented by average values, unless noted otherwise.

SUSTAINABILITY



PRODUCT	COOL ROOF RATING					
	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	INITIAL	3 YEAR	INITIAL	3 YEAR	INITIAL	3 YEAR
SENTINEL KEE P150 HFB (White)	0.86	0.71	0.89	0.88	108	87

