

**SIKA CORPORATION • ROOFING**

**VAPOR RETARDER SELECTION GUIDE**

Sheet Products <sup>4,5</sup>	Vapor Retarder PE 10	Sarnavap 5000E SA FR	Vapor Retarder SA 31	Ply Sheet HA 87	Ply Sheet TA 87	Vapor Retarder SA 106	Ply Sheet HA 118	Vapor Retarder TA 138
<i>Application Type</i>	Loose laid	Self-Adhered	Self-Adhered	Type III or Type IV Hot Asphalt Vapor Retarder Adhesive CA (cold applied)	Torch Applied	Self-Adhered	Type III or Type IV Hot Asphalt Vapor Retarder Adhesive CA (cold applied)	Torch Applied
<i>Temperature at Application</i>	Any	30°F (-1°C) & above	14°F (-10°C) & above	Hot Asphalt: any CA: 41°F (5°C) & above	Any	40°F (4.4°C) & above	Hot Asphalt: any CA: 41°F (5°C) & above	Any
<i>Substrates</i> <sup>1</sup>	Any	Steel	Concrete, Steel <sup>2</sup> , Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Approved Gypsum Boards	Concrete, Approved Gypsum Boards	Concrete, Steel <sup>2</sup> , Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Approved Gypsum Boards	Concrete, Approved Gypsum Boards
<i>Primer</i>	None	None	Vapor Retarder Primer SB Vapor Retarder Primer VC Vapor Retarder Primer WB	Vapor Retarder Primer TA Vapor Retarder Primer BE CA: None	Vapor Retarder Primer TA Vapor Retarder Primer BE	Vapor Retarder Primer SB Vapor Retarder Primer VC Vapor Retarder Primer WB	Vapor Retarder Primer TA Vapor Retarder Primer BE CA: None	Vapor Retarder Primer TA Vapor Retarder Primer BE
<i>Seams</i>	Sika Multi-Purpose Tape	Self-Adhered	Self-Adhered	Type III or Type IV Hot Asphalt Vapor Retarder Adhesive CA (cold applied)	Torch Applied	Self-Adhered Side Laps Heat Welded End Laps	Type III or Type IV Hot Asphalt Vapor Retarder Adhesive CA (cold applied)	Torch Applied
<i>Temporary Roof</i>	No	No	3-months <sup>3</sup>	6-months	6-months	6-months	6-months	6-months
<i>WV Permeance E96: perms (ng/[Pa·s·m<sup>2</sup>])</i>	0.019 (1.07)	0.030 (1.7)	0.018 (1.04)	0.022 (1.24)	0.010 (0.565)	0.010 (0.543)	NA	0.006 (0.320)
<i>WV Transmission E96: g/[hr·m<sup>2</sup>] (g/[24hr·m<sup>2</sup>])</i>	0.0054 (0.1304)	NA	0.0070 (0.168)	0.0106 (0.2536)	0.0077 (0.1848)	0.0099 (0.2384)	NA	0.0055 (0.1312)
<i>Air Flow Rate At 75 Pa E2178: L/[s·m<sup>2</sup>] (L/[Pa·s·m<sup>2</sup>])</i>	<0.0002 (<0.000008)	0.000	<0.0003 (<0.000012)	0.0073 (0.000098)	0.0002 (0.000003)	0.0004 (0.000005)	NA	0.0004 (0.000005)

Primer Products <sup>4</sup>	Vapor Retarder Primer SB (solvent-based)	Vapor Retarder Primer VC (low VOC)	Vapor Retarder Primer WB (water-based)	Vapor Retarder Primer TA (torch-applied)	Vapor Retarder Primer BE (bitumen emulsion, water based)
<i>Color</i>	Red	Green	Blue	Black	Dark Brown
<i>Substrates</i>	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Approved Gypsum Boards	Concrete, Approved Gypsum Boards
<i>Temperature at Application</i>	14°F (-10°C) & above	14°F (-10°C) & above	25°F (-4°C) & above	14°F (-10°C) & above	41°F (5°C) & above
<i>Coverage Rates</i>	83 - 138 ft <sup>2</sup> /gal porous 166 - 416 ft <sup>2</sup> /gal non-porous	104 - 208 ft <sup>2</sup> /gal porous 166 - 416 ft <sup>2</sup> /gal non-porous	208 ft <sup>2</sup> /gal depending on porosity	166 - 277 ft <sup>2</sup> /gal depending on porosity	125 - 200 ft <sup>2</sup> /gal depending on porosity
<i>VOC</i>	500 (g/L)	0 (g/L) with exemption (EPA)* 240 (g/L) (SCAQMD)* 476.3 (g/L) w/o exemption*	0 (g/L)	340 (g/L)	31 (g/L)

<sup>1</sup> Substrates require priming (primer not required when using Vapor Retarder PE 10) and must be clean, cured, dry, and free of dirt, dust, oil and debris. Steel substrates do not require priming but must be clean, dry and free of dirt, dust, oil and debris.

<sup>2</sup> Except on FM insured projects

<sup>3</sup> Light construction traffic

<sup>4</sup> Physical properties listed are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

<sup>5</sup> Use Mastic at and around all penetrations except with Vapor Retarder PE 10 applications, use Multi-Purpose Tape.

\* The U.S. EPA considers the solvents in Vapor Retarder Primer VC as "exempt", and therefore the product's VOC content can be considered "0 g/l" and used in all jurisdictions operating under the EPA guidelines. At this time, the SCAQMD does not recognize the TBAC solvent as "exempt", and therefore the primer's VOC content is "240 g/l" when used in jurisdictions operating under their guidelines (e.g. specific counties in CA).