

# VAPOUR RETARDER SELECTION GUIDE

**BUILDING TRUST  
CONSTRUIRE LA CONFIANCE**



Sheet Products	Sarnavap 6	Sarnavap 10	Vapor Retarder SA 31	Vapor Retarder SA 106	Vapor Retarder TA 138
Roll Size	20 ft x 100 ft (6.9 m x 30.5 m)	20 ft x 100 ft (6.9 m x 30.5 m)	44.8 in x 133.8 ft (1.14 m x 40.8 m)	39.4 in x 49.2 ft (1 m x 15 m)	39.4 in x 32.8 ft (1 m x 10 m)
Application Type	Loose laid	Loose laid	Self-Adhered	Self-Adhered	Torch Applied
Temperature at Application	Any	Any	-10 °C (14°F) and above	-5 °C (40°F) and above	Any
Substrates <sup>1</sup>	Any	Any	Concrete, Steel <sup>2</sup> , Approved Gypsum Boards, Plywood	Concrete, Steel <sup>2</sup> , Approved Gypsum Boards, Plywood	Concrete
Primer	None	None	Vapor Retarder Primer SB, Vapor Retarder Primer VC, Vapor Retarder Primer WB	Vapor Retarder Primer SB, Vapor Retarder Primer VC, Vapor Retarder Primer WB	Vapor Retarder Primer TA
Seams	Sikalastomer 65	Sikalastomer 66	Self-Adhered	Self-Adhered Side Laps, Heat Welded End Laps	Torch Applied
Temporay Roof	No	No	2-months <sup>3</sup>	6-months	6-months
WV Permeance E96: perms (ng/[Pa·s·m <sup>2</sup> ])	0.263 (15)	0.019 (1.07)	0.018 (1.04)	0.010 (0.543)	0.006 (0.320)
WV Transmission E96: g/[hr·m <sup>2</sup> ] (g/[24hr·m <sup>2</sup> ])	NA	0.0054 (0.1304)	0.0070 (0.168)	0.0099 (0.2384)	0.0055 (0.1312)
Air Flow Rate At 75 Pa E2178: L/[s·m <sup>2</sup> ] (L/[Pa·s·m <sup>2</sup> ])	NA	<0.0002 (<0.00004)	<0.0003 (<0.000012)	0.0004 (0.000005)	0.0004 (0.000005)
Roof Board Application	Mechanically Attached or Loose Laid	Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid	Adhered, Mechanically Attached or Loose Laid
Primer Products	Colour	Substrates	Application Temperature	Coverage Rates	VOC (g/L)
Vapor Retarder Primer SB (solvent-based)	Red	Concrete, Approved Gypsum Boards, Plywood	-10 °C (14 °F) and above	83-138 sf/gal porous 166-416 sf/gal non-porous	500
Vapor Retarder Primer VC (low VOC)	Green	Concrete, Approved Gypsum Boards, Plywood	-10 °C (14 °F) and above	104-208 sf/gal porous 166-416 sf/gal non-porous	0 with exemption (EPA)* 240 (SCAQMD)* 476.3 w/o exemption*
Vapor Retarder Primer WB (water-based)	Blue	Concrete, Approved Gypsum Boards, Plywood	-4 °C (25 °F) and above	208 sf/gal depending on porosity	0
Vapor Retarder Primer TA (torch-applied)	Black	Concrete	-10 °C (14 °F) and above	166-277 sf/gal depending on porosity	340

**Notes:**

<sup>1</sup> Substrates require priming (primer not required when using Vapor Retarder PE 6 or 10) and must be clean, cured, dry, and free of dirt, dust, oil and debris. Steel substrates do not need priming but must be clean, dry and free of dirt, dust, oil and debris.

<sup>2</sup> Except on FM insured projects. Meets requirements for Ulic

<sup>3</sup> Light construction traffic

\* 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).

Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

Use Mastic at and around all penetrations except on Vapor Retarder PE 10 applications, use Multi-Purpose Tape.

For up to date and accurate information, please consult the current Product Data Sheet for all Sika products at [www.sika.ca](http://www.sika.ca)

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Certified ISO 9001 (CERT-0102780)  
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