

VAPOUR RETARDER SELECTION GUIDE

BUILDING TRUST
CONSTRUIRE LA CONFIANCE



Sheet Products	Vapor Retarder PE 6	Vapor Retarder PE 10	Sarnavap 5000E SA FR	Vapor Retarder SA 31	Vapor Retarder SA 106	Vapor Retarder TA 138
Roll Size	6.9 m x 30.5 m (20' x 100')	6.9 m x 30.5 m (20' x 100')	1.08 m x 40 m (42.5" x 131')	1.14 m x 40.8 m (44.8" x 133.8')	1 m x 15 m (39.4" x 49.2')	1 m x 10 m (39.4" x 32.8')
Application Type	Loose laid	Loose laid	Self-Adhered	Self-Adhered	Self-Adhered	Torch-Applied
Temperature at Application	Any	Any	-1 °C (30 °F) & above	-10 °C (14 °F) & above	5 °C (40 °F) & above	Any
Substrates ¹	Any	Any	Steel	Concrete, Steel ² , Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Steel ² , Gypsum Decks, Approved Gypsum Boards, Plywood	Concrete, Approved Gypsum Boards
Primer	None	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 Vapor Retarder Primer BE
Seams	Sika Multi-Purpose Tape	Sika Multi-Purpose Tape	Self-Adhered	Self-Adhered	Self-Adhered Side Laps Heat Welded End Laps	Torch-Applied
Temporay Roof	No	No	No	3-months ³	6-months	6-months
WV Permeance E96; perms (ng/[Pa·s·m ²])	.263 (15)	0.019 (1.07)	0.03 (1.7)	0.018 (1.04)	0.010 (0.543)	0.006 (0.320)
Air Flow Rate At 75 Pa E2178: L/[s·m ²] (L/[Pa·s·m ²])	NA	<0.0002 (<0.00004)	0	<0.00006 (<0.0003)	0.0004 (0.000005)	0.0002 (0.000003)

Application	Vapor Retarder PE 6	Vapor Retarder PE 10	Sarnavap 5000E SA FR	Vapor Retarder SA 31	Vapor Retarder SA 106	Vapor Retarder TA 138
Insulation, Coverboard Application	Mechanically-Attached or Loose Laid	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	Color	Substrates	Temperature at Application	Coverage Rates	VOC (g/L)
Vapor Retarder Primer SB (solvent-based)	Red	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	-10 °C (14 °F) & above	83-138 sq. ft./US gal. (porous) 166-416 sq. ft./US gal. (non-porous)	500
Vapor Retarder Primer VC (low VOC)	Green	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	-10 °C (14 °F) & above	104-208 sq. ft./US gal. (porous) 166-416 sq. ft./US gal. (non-porous)	0 with exemption (EPA)* 240 (SCAQMD)* 476.3 w/o exemption*
Vapor Retarder Primer WB (water-based)	Blue	Concrete, Gypsum Decks, Approved Gypsum Boards, Plywood	-4 °C (25 °F) & above	208 sq. ft./US gal. depending on porosity	0
Vapor Retarder Primer TA (torch-applied)	Black	Concrete, Approved Gypsum Boards	-10 °C (14 °F) & above	166-277 sq. ft./US gal. depending on porosity	340

Notes:

¹ 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.

² Except on FM insured projects. Meets requirements for Ulic

³ 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

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Certified ISO 14001 (CERT-0102791)