

TECHNICAL DATA SHEET

Identification: VAPOR LOCK™ Shield Wall 39

What it does: Rubber elastomeric system which self-adheres to most exterior sub-strates especially concrete

Application/uses: Permanently Seals Negative Hydrostatic Ingress / Protects Sensitive Ecosystem from Concretes harsh elements

Company Name: Biorok

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DESCRIPTION

Vapor Lock™ Shield Wall 39 is a water-based elastomer modified liquid rubber two-component system which self-adheres to most exterior sub-strates.

BASIC USES

When cured this seamless flexible coating functions as a high protective membrane providing excellent protection from water penetration, salt and/or other chemical attack on all concrete exterior surfaces.

MAJOR ADVANTAGES OF Vapor Lock™ Shield Wall 39

Shield Wall 39 is an environmentally safe alternative to conventional hot applied bitumen or solvent based protective coats and is easier to use than plastic sheeting.

Shield Wall 39 provides excellent waterproofing and chemical resistance characteristics generating a highly flexible seamless membrane that resists cracking and aging.

TECHNICAL AND PRODUCT DATA

NO VOC'S – NON-TOXIC – LOW ODOR & WATERBASED	
PHYSICAL PROPERTIES (LIQUID)	
PROPERTY	TYPICAL RESULTS
Colour	Brown to black
Specific gravity (Liquid) kg/L	Approx. 1.0
Odour	None
VOC	Contains no solvent
% solid (Wt.)	62-65%
Viscosity, SSF @ 25°	15-20
PH	10-12

CURED MEMBRANE PROPERTY

PERFORMANCE DATA (Cured membrane)	TYPICAL RESULTS
Colour	Brown to Black
Specific gravity. Kg/L	Approximately 1.0
Chemical resistance	Resists to most inorganic solution. Not recommended for petroleum products. See chemical chart for further data
Biological resistance ASTM E 154, AATM D 412	Passed (>90% original value)
Impact resistance CSB 37-GP-56 @ 23° in-lbs water tightness after impact	Passed (168) Passed (no leakage)

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Tensile strength ASTM D 412, psi	90
Elongation	850
Adhesion to Concrete resistance, ASTM C 907 (amended to tensile adhesion), psi	111
Puncture resistance CGSB 37-GP-56, 24 HRS @ 29 N, -	Passed (No perforation)
Accelerated resistance, ASTM G 155, D 412 Tensile strength	Passed (No deterioration of film) Passed (>90% original Value)
Hardness, Durometer Type 00	85-87
Underwriters Laboratories	Class A Fire Rating (Call for more details)

TECHNICAL AND PRODUCT DATA

- Solvent: None. Water base
- Hazardous Vapors: None
- Installation: All cementitious materials
- Number of Components: 2
- Packaging: 1040 Litre IBC

APPLICATION INSTRUCTIONS

Shield Wall 39 is applied as a dual component system using a specially designed spray system. Both components of the system are water based and environmentally friendly. Applied at ambient temperature (above 15°C).

Shield Wall 39 sets almost instantly, 3 minutes, forming a seamless flexible membrane. Backfilling can commence in 24-48 hours.

For best results **Shield Wall 39** should be applied to a dry surface which is free of dirt, debris, oil, form oil or any bond breaker. The product sets up rapidly, 3 minutes and can be back filled after 24-48 hours.

Shield Wall 39 is applied between 0.7 m/L to produce a 40-mil protective membrane to 0.175 m/L to produce a 160-mil membrane.

Shield Wall 39 dries to the touch in one (3) minute @ 20°C and is completely cured in 48 hours. This curing time may vary depending on temperature and relative humidity.

Typically, an applicator crew can spray 560 m2 per day. Protection board or insulation may be applied to the membrane surface after an initial set time of 20 minutes.

Coverage

CURED MEMBRANE	COVERAGE
<u>mm</u>	<u>m2 / liter</u>
1.0	0.63
2.0	0.51
3.0	0.31
4.0	0.21

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Shield Wall 39 is non-tacky in one minute and cures within 48 hours. A trained crew can apply 560 – 650M2 per day. Protection Board or insulation may be applied to the membrane surface after an initial set time of 20 minutes.

LIMITATIONS

SHIELD WALL 39 is mildly alkaline. When applying, observe normal safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the products SDS.

Shield Wall 39 should not be applied when the ambient temperature is below. The uncured membrane may be damaged if frozen. Do not apply to wet or frozen surfaces or directly before a rain.

Caution: For industrial use only. Keep out of the reach of children. Avoid storage below 5°C. Please consult the Material Safety Data Sheet before using **Shield Wall 39**.

HANDLING

Discard any frozen or separated, visually observable, product.

SAFETY

Please refer to SDS at www.biorok.com.au

WARRANTY DISCLAIMER

The information herein is to assist customers in determining whether our products are suitable for their application.

Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to the contents and suitability. We warrant our products to meet our written specifications. Nothing herein shall constitute a warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any loss or patent to be inferred. The exclusive remedy for all proven claims are replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.