



**6254 Skyway Road, P. O. Box 915,  
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Vapor Lock™ 20/20 is manufactured with great pride by The Specialty Products Group, Inc. Here is an outline of some of the benefits of Vapor Lock™ Concrete Admixtures.

1. Vapor Lock™ has been approved by independent lab testing as an ASTM C 494 Type S concrete admixture; no other competitor in this segment has this important industry approval. The independent lab was an AASHTO approved testing agency and test results will be provided upon request.
2. The Specialty Products Group, Inc., uses US domestically acquired reactive materials when manufacturing Vapor Lock™ 20/20, which are finely & extensively graded and washed to a food use standard, all other manufacturers in this segment use industrially graded materials. The superior quality raw material provides superior performance in industry standard testing ASTM D5084 and a purer color.
3. Manufacturing Quality Control- As the only multi-line manufacturer in this segment and enjoying a manufacturing line with a 30 year history and an extreme focus on Quality, SPG has a significant advantage over the competition. This manufacturing Quality Control brings additional Quality Assurance to the process.
  - a. Quality Standards: every existing applicable ISO standard is exceeded by SPG.
  - b. An Independent Certificate of Analysis is required for all raw materials to ensure it meets SPG's stringent standards.
  - c. Vapor Lock™ 20/20 is decanted post production with specialized filtration equipment to ensure optimal purity.
  - d. 100% of all materials manufactured by SPG are tested to ensure product design standards are met.
  - e. A batch retain is kept from each manufactured batch for future inspection.
4. Quality Assurance- The purpose of this section is to offer additional protections to the project to ensure Vapor Lock™ 20/20 is placed in the concrete and that proper space conditioning and flooring installation procedures are followed.
  - a. Ready Mix Supplier Certification is required to use Vapor Lock™ 20/20.
  - b. Concrete Finisher Certification is required to use Vapor Lock™ 20/20.
  - c. Hydrosphere markers are an additional ingredient in Vapor Lock™ 20/20 to ensure its presence in the concrete. SPG has the ability to test each project using targeted spectrographic analysis to additionally verify the presence and approximate dosing range of Vapor Lock™ 20/20 within the

concrete matrix. This technology is unique to Vapor Lock™ within the concrete industry and serves as an additional Quality Control element to ensure Vapor Lock™ inclusion in concrete.

5. Quality Control- SPG recognizes the importance of success to this and all projects, the End-user and the involved AEC community are all stakeholders. SPG has a strong vested Warranted interest, with considerable financial exposure, in verifying achieved concrete design parameters, field conditions and flooring installation procedures are correct for the application. Vapor Lock™ 20/20 has a 100% track record of success and the benchmark field testing that occurs is part of the process. These steps protect all stakeholders.
  - a. Industry standard ASTM D-5084 is performed on all Warranted projects.
  - b. On site moisture testing is conducted at no charge by SPG personnel.
  - c. On site bond tests are pulled by SPG personnel, at no charge, measured in Newtons. This is an additional strong indicator of future success. The bond test helps establish sound flooring procedures such as ambient conditions, rolling, open time and acclimatization of materials.
  - d. New test methods are being developed in coordination with the flooring industry.
  
6. If the slab underperformed in any area of testing it would be topically treated with SPG products at no extra charge to the end-user.
  
7. Here is a partial list of testing performed with Vapor Lock Concrete Admixtures:

ASTM Designation	Title	Results
C39/C39M	Test Method for Compressive Strength of Cylindrical Concrete Specimens	2.1-.5% Increase over Control-28 days
C78	Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	4-1% Increase over Control-28 days
C138/C138M	Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	1% Decrease over control-28 days
C143/C143M	Test Method for Slump of Hydraulic-Cement Concrete	0% Change against Control
C157/C157M	Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete	-0.021% Avg 3 Tests
C231	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	0.3% Increase over Control
C403/C403M	Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	Initial set Vapor Lock decreased setting time by 1 minute
C403/C403M	Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	Final set Vapor Lock decreased setting time by 2 minute
C666/C666M	Test Method for Resistance of Concrete to	1.1% Improved

	Rapid Freezing and Thawing	Durability Factor over Control
D5084	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	40% Increase Over other WVRA Products
D5084	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	500% Increase over Crystalline Growth Admixture
D5084	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	1,000% Increase Over Control
C494/C494M	Standard Specification for Chemical Admixtures for Concrete	Pass
NSF-61	Approval Testing for use with Potable Drinking Water	Pass

8. The Vapor Lock™ 20/20 Warranty is a Ten-Year Full Warranty that includes Material & Labor to replace any flooring or roofing material failure due to moisture in or passing through the concrete. There are additional Warranty's that are available including a Lifetime Moisture Warranty, consult with manufacturer.
9. Projects that use Vapor Lock 20/20 will receive a 3<sup>rd</sup> party insurance policy from Lloyd's of London in the amount of \$20,000,000.00 (CAD) that will cover the cost of replacement of Warranted moisture sensitive coatings and adhesives due to moisture related failure or adhesive bond loss. The end-user will be named in the Lloyd's policy as an additional insured.
10. Vapor Lock™ 20/21 carries a 5 year Warranty against exterior concrete spalling, contact SPG for further information.
11. Vapor Lock 20/21 in addition to having ASTM C494 approval also enjoys NSF 61 approval for use in contact with potable water.
12. The Vapor Lock™ technology has been manufactured on the same production line to the same exacting Quality standard for over 25 years.



Vapor Lock™ 20/20 concrete Admixture has been used successfully in over 40 million square feet of moisture sensitive coatings and adhesive applications with a 100% track record of success. The reason for this success and the reason why Lloyd's of London underwrite our comprehensive Warranty, \$20, 000,000.00 (CAD) per project is because of the comprehensive Quality program spelled out below, these are the steps that must be taken to obtain a Vapor Lock™ 20/20 Warranty.

1. Project must be registered with Specialty Products Group, Inc. (SPG). This is a simple online form.
2. Concrete supplier must be certified to use Vapor Lock™ 20/20 and adhere to all requirements specified in certification process.
3. Finisher must be certified to use Vapor Lock™ 20/20 and adhere to all requirements specified in certification process.
4. Manufacturers' (SPG) approval of mix design.
5. Notification of concrete placement 5 days prior to placement by General contractor or other responsible parties is necessary to ensure the job is manned by SPG Representative. The earlier this can be scheduled the better for all parties.
6. Slabs on ground must have ASTM E 1745 vapor retarder Class A, conforming to ASTM 1745 Table 1, installed following ASTM E 1643, ASTM F710 and ACI 302.2R-06 guidelines for all slabs on ground.
7. ASTM D 5084-Minimum requirements, 6\*10<sup>-8</sup> cm/s Permeability.
8. Moisture testing conducted by manufacturer (SPG). Approval must be in writing from manufacturer (SPG) prior to installation of moisture sensitive coatings and adhesives in order to maintain warranty.
9. Bond test of flooring materials installed by flooring contractor under similar conditions and materials used in final installation, this installation must be pulled up by SPG personnel to verify strength of bond. Adhesive selection should be for non-porous substrates.
10. Ph testing will be conducted by SPG personnel to ensure Ph is in line with flooring manufacturers' tolerance.
11. Inspect concrete to ensure finishing was performed to ACI 302 1R – 15 table 4.1 #2 areas where covering will be installed finish with a light steel-troweled finish.
12. Warranty or authorization to proceed must be obtained in writing prior to installation of Warranted moisture sensitive coatings and adhesives.
13. All requested information for purposes of Warranty documentation must be supplied to SPG as requested.
14. Verify with manufacturer use of current technical bulletins.



SPECIALTY  
PRODUCTS  
GROUP®

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### Manufacturers' Warranty: Vapor Lock™ 20/20

The Specialty Products Group (manufacturer) warrants its product, Vapor Lock™ 20/20, to be free from material defects and that the product conforms to its current applicable specifications of stopping moisture vapor emission from the concrete itself, for a period of **ten years**. The warranty period starts from the date of the substantial completion. This warranty covers only those Flooring or patching compound failures associated with moisture vapor emission related bond loss and is provided if the Vapor Lock™ 20/20 is installed according to, and in compliance with the instructions and the requirements of the manufacturer. In the event there is a moisture vapor emission related bond loss claim, manufacturer reserves the right to inspect and test any and all materials to determine the source of the problem. The sole and exclusive remedy of purchaser for any claim concerning Vapor Lock™ 20/20, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the **labor and materials** (like the original installed products) required for the removal, replacement or repair of floor covering materials damaged by moisture vapor emission. Manufacturer shall be responsible for the application of a fully warranted topical moisture remediation system in the event of a moisture related failure. Repair or replacement of the damaged flooring material is at the sole discretion of the manufacturer. The manufacturer shall in no way be responsible for any acts of nature, inferior workmanship, inferior concrete, concrete additives, design flaws, conditions of excess high or low temperature, excessive swings in relative humidity, contaminants in the concrete, cracks or voids resulting after the product application, any incidental or consequential damage, including without limitation, damage for lost profits, business interruption, property damage, economic loss or injuries to the person. Manufacturer shall not be liable to the buyer for contribution, or indemnity, or for other losses arising from the use of Vapor Lock™ 20/20. Any and all disputes or claims arising out of these products or relating to the provisions of the warranty must be arbitrated utilizing the services of a neutral dispute resolution service upon which buyer and seller agree in the state or province where the project is located. In the unlikely event of litigation SPG agrees to a venue where the project is located and agrees to abide by the rulings of a local court having jurisdiction. Manufacturer claims policy is as follows: Claims will not be considered until the flooring material and adhesive has been inspected by one or more of the following: Company representative, or independent inspection service of manufacturer's appointment. There are no other warranties expressed or implied including, but not limited to, any implied warranty of merchantability or warranties of fitness for a particular purpose. All accounts must be paid in full prior to any warranty being issued or enforced. There is an expanded Warranty that must accompany this certificate Warranty, refer to the expanded Warranty for any special conditions, exclusions, or considerations in this project.

Project Name:

Vapor Lock™ 20/20 Project #:

\_\_\_\_\_  
Scott Bergsbaken, President

\_\_\_\_\_  
Date

\_\_\_\_\_  
Greg Hart, CEO

\_\_\_\_\_  
Date



# CERTIFICATE OF INSURANCE

DATE (MM/DD/YY)  
March 11, 2021

BROKER



86 Woodlawn Road West  
Guelph ON N1H 1B2

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policies below.

**ISSUING COMPANIES AFFORDING COVERAGE**

COMPANY A Provided by Certain Lloyd's of London Underwriters Under Agreement #B088860277H20(90)

COMPANY B

COMPANY C

COMPANY D

INSURED'S FULL NAME AND MAILING ADDRESS

Specialty Products Group Inc.  
6254 Skyway Drive  
PO Box 915  
  
Smithville ON. L0R 2A0



**COVERAGES**

This is to certify that the policies of insurance listed below have been issued to the insured named above for the policy period indicated. Notwithstanding any requirements, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

**LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.**

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS (Canadian dollars unless indicated otherwise)	
A	<b>GENERAL LIABILITY</b>	CHES0020	04/16/2020	04/16/2021	EACH OCCURRENCE	\$ 20,000,000
	COMMERCIAL GENERAL LIABILITY				GENERAL AGGREGATE	NO AGGREGATE
	<input type="checkbox"/> CLAIMS MADE FORM				PRODUCTS & COMPLETED OPS.	\$ 20,000,000
	<input checked="" type="checkbox"/> OCCURRENCE FORM				PRODUCTS AND COMPLETED OPS. AGGREGATE	\$ 20,000,000
	<input type="checkbox"/>				BODILY INJURY & PROPERTY DAMAGE	\$ 20,000,000
	<input type="checkbox"/>				RIP AND TEAR	\$ 250,000
	<input type="checkbox"/>				POLLUTION	\$ 1,000,000
	<input type="checkbox"/>				ERRORS & OMISSIONS	\$ 500,000
	<b>AUTOMOBILE LIABILITY</b>				\$	
	<input type="checkbox"/> DESCRIBED AUTOMOBILE FORM				\$	
	<input type="checkbox"/> ALL OWNED VEHICLES				\$	
	<input type="checkbox"/> ALL LEASED VEHICLES				\$	
	<b>EXCESS / UMBRELLA LIABILITY</b>					
	<input type="checkbox"/> UMBRELLA FORM				EACH OCCURRENCE	\$
	<input type="checkbox"/> OTHER -				AGGREGATE	\$
					RETAINED LIMIT	\$
	<b>PROPERTY</b>					\$
	<input type="checkbox"/> BROAD FORM					\$
	<input type="checkbox"/> NAMED PERILS					\$
	<b>OTHER</b>					\$
						\$

ADDITIONAL INSURED

Generic Certificate

DESCRIPTION OF OPERATIONS/LOCATIONS/ SPECIAL ITEMS

Cement Manufacturing-Ready mix, wholesale to customers including selling of products to customers located in Australia. Sales of Shield Wall 39

CERTIFICATE HOLDER

Specialty Products Group  
6254 Skyway Dr. PO Box 915 Smithville, ON L0R 2A0

CANCELLATION

Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will endeavor to mail THIRTY (30) DAYS written notice to the certificate holder named to the left, but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives.

AUTHORIZED REPRESENTATIVE

*Amy Purdy*



Submittal Information  
**Vapor Lock™ 20/20**

**ASTM C494 Type S  
Concrete Admixture**

Design Data: Standard dosage rate is 10 ounces per hundred weight of cementitious material. Metric mix standard 650 ml per 100kg of cementitious materials. Accuracy must be minus 0% plus 3%. The maximum water to cementitious materials ratio is .52 in place. Consult with manufacturer for specialty applications.

Quality Control:

Quality Control & Quality Assurance Requirements:

- A. Registration of project and product batch number with manufacturer prior to initiation of project.
- B. Concrete supplier must be certified to use Vapor Lock 20/20 and adhere to all requirements specified in certification process.
- C. Finisher must be certified to use Vapor Lock 20/20 and adhere to all requirements specified in certification process.
- D. Manufacturer's approval of mix design.
- E. Notification of concrete placement 5 days prior to placement by General Contractor or other responsible parties is necessary to ensure the job is manned by SPG Representative.
- F. ASTM D 5084-Minimum requirements,  $6 \times 10^{-8}$  cm/s Permeability.
- G. Moisture testing conducted by manufacturer. Approval must be in writing from manufacturer prior to installation of moisture sensitive coatings and adhesives in order to maintain warranty.
- H. Bond test of flooring materials installed by flooring contractor under similar conditions and materials used in final installation, this installation must be pulled up by SPG personnel to verify strength of bond. Adhesive selection should be for non-porous substrates.
- I. Ph testing will be conducted by SPG personnel.
- J. Authorization to proceed must be obtained in writing prior to installation of Warranted moisture sensitive coatings and adhesives. Warranty will be issued upon completion of project.
- K. Verify with manufacturer use of current technical bulletins.