

NOW APPROVED FOR CANADIAN MARKETS

# PREMIUM MOISTURE VAPOR BARRIER



hci products 55150 Premium Moisture Vapor Barrier is a high-grade vapor barrier coating for interior walls and ceilings. Third party repeatable testing in accordance with CAN/CGSB 1.501-M89 has led to CGSB listing number 80431. 55150 also complies with Section 9.25.4.2 of the National Building Code of Canada. As a lower cost and less labor intensive process than the alternatives, hci's 55150 Premium Moisture Vapor Barrier has been a reliable option for housing manufacturers around the U.S. for many years.

## HIGHLIGHTS

- CGSB QUALIFIED – LISTING # 80431.
- PASSES CAN/CGSB 1.501-M89 VAPOR BARRIER TEST STANDARD
- NTA, INC. TESTED WITH AVERAGE PERM RATING OF .77—MUCH LOWER THAN THE REQUIREMENTS OF ASTM E96-10 (PERMEANCE LESS THAN 1.04 PERMS)
- ENVIRONMENTALLY FRIENDLY
- LEEDS COMPLIANT
- EASY APPLICATION
- ACCELERATED THROUGHPUT
- LESS LABOR INTENSIVE & LOWER LABOR COSTS THAN POLY

**hci chemtec inc**

**ISO 9001:2008 CERTIFIED**

310 S Bellis Street

Phone: 715-845-7221

Toll Free: 800-433-6331

Fax: 715-848-9230

E-mail: [hciassist@hciinfo.com](mailto:hciassist@hciinfo.com)

[www.hciinfo.com](http://www.hciinfo.com) for more information



Government  
of Canada

Gouvernement  
du Canada

Canadian General  
Standards Board

Office des normes  
générales du Canada

Place du Portage III - 6B1  
Hull, Quebec  
K1A 1G6

Place du Portage III - 6B1  
Hull (Québec)  
K1A 1G6

August 2<sup>nd</sup> 2010

File No. PQM- 656

Mr. Dom Hilger  
HCI Chemtec Inc.  
310 S. Bellis Street  
Wausau, WI  
54402

Dear Mr. Hilger,

**Re: Qualification Program for Paints  
CAN/CGSB-1.501-M89  
Method for Permeance of Coated Wallboard  
Listing Numbers 80431**

CGSB is pleased to confirm that 55150 Premium Moisture Vapor Barrier has been confirmed as meeting the requirements of the Method for Permeance of Coated Wallboard, standard CAN/CGSB-1.501.M89, effective August 2, 2010.

Please note that you can also verify these listings on our Internet site at [www.pwgsc.gc.ca/cgsb](http://www.pwgsc.gc.ca/cgsb). If you have any questions, please do not hesitate to contact me.

Yours truly,

Donald Fulton  
Team Leader  
Certification Services – Products and Services (CS)  
Conformity Assessment Division  
Canadian General Standards Board

**Tel:** (819) 956-3825  
**Fax:** (819) 956-5740  
**E-mail:** [donald.fulton@pwgsc.gc.ca](mailto:donald.fulton@pwgsc.gc.ca)



Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

Canada

Method for Permeance of Coated Wallboard

## Method for Permeance of Coated Wallboard

### CAN/CGSB-1.501-M89

**HCI Chemtec Inc.**

**Wausau, WI, 54403**

Telephone No: 715-845-7221

Fax No: 715-848-9230

Listing Number: 80431

Status: Listed

55150 Premium Moisture Vapor Barrier

Listing Date: 2010-08-02

To obtain the most recent program listing information, please contact Donald Fulton at 819-956-3825.

*For procurement purposes the product/service described herein is being released in the language in which it was received.*

<http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/programme-program/certification/prog/peintures...> 2/17/2012



## INTERTEK CORRESPONDENCE

---

From: Peter Gildenstern Intertek  
Sent: Tuesday, August 24, 2010 10:40 AM  
To: Dom Hilger, hci chemtec, inc.  
Subject: RE: hci chemtec Moisture Vapor Barrier Information

Your product meets the requirements to be used as a vapor barrier in Canada and would not need additional testing to show that it meets the requirement. However, there would need to be some sort of ongoing quality process and follow up testing to make sure that it was installed to meet the vapor barrier requirements of the code.

**Intertek has been a leader in ensuring quality and safety of the products, processes, and systems of companies throughout the US and Canada.**



## CSA INTERNATIONAL

---

Any current or prospective customer of **CSA-International** must adhere to the following procedure to have a 55150 Premium Moisture Vapor Barrier coating added to their scope:

- The home manufacturer must apply to CSA to have paint used as a VB added to their scope,
- Their procedure and checklist(s) for applying the paint must be accepted by CSA before they can start using paint as a VB,
- They are to provide the information on the actual paint that will be used, with a CGSB current letter and a copy of the actual test data,
- The Home Owner and Local Authority will need to be notified (paint is not commonly used as a VB in Canada),
- The manufacturer will be responsible for the home until the home is turned over to the Owner (agencies and retailers for the use of paint can't be in the chain of communications or made responsible for repairs, it is up to the manufacturer to ensure the repairs have been done to their procedures)
- They will need to provide an information sheet that will accompany the home advising the Home Owner what the procedure is for repairs and repainting.



**CAN/CGSB-1.501-M89, Method for Permeance of Coated Wallboard  
Section 5.1, Procedure (ASTM E96-10,Standard Test Methods for  
Water Vapor Transmission of Materials)**

**General:**

Client: HCI Chemtec  
Job Number: HCIC122711-11  
Performed By: Joel Best  
Test Location: NTA, Inc.  
Nappanee, Indiana

Test Variable: Performance of gypsum samples with sprayed-on and back-rolled vapor barrier paint.

**Test Material:**

Gypsum Description: 1/2 -in. Temple Inland Tapered-Edge Gypsum Wallboard, Produced 2/28/2011, Manufactured to Meet ASTM C1396

Coating Description: Premium Moisture Vapor Barrier (#55150) (Lot #0511-700), Produced in May 2011 at Wausau, Expires in November 2012

Manufacturer: HCI Chemtec

Average Overall Thickness: 0.504-in.

**Average Wet Film**

Thickness\*: First Coat - 0.011-in.

Overall Size: 11-in. x 11-in.

Test Area Size: 10-in. x 10-in.

Date Received: 1/24/2012

\*Measured by inspector during product sampling

**Apparatus:**

Asset No.  
Test Chamber: 00730  
Data Logger: 00726  
Balance: 00003

**Test Parameters:**

Test Method: ASTM E96-10 (Procedure A)  
Test Temperature: 73.4 deg. F  
Chamber RH: 50%  
Pan Cavity RH: 0%

Test Start Date: 2/2/2012

Test End Date: 2/13/2012

Overall Duration: 261.4 hours

Sealing Method: Paraffin Gulf Wax

Saturation Vapor Pressure: 0.8298 in. Hg

Material Side A: White in color (vapor barrier application side)

Material Side B: Brown in color (paper)

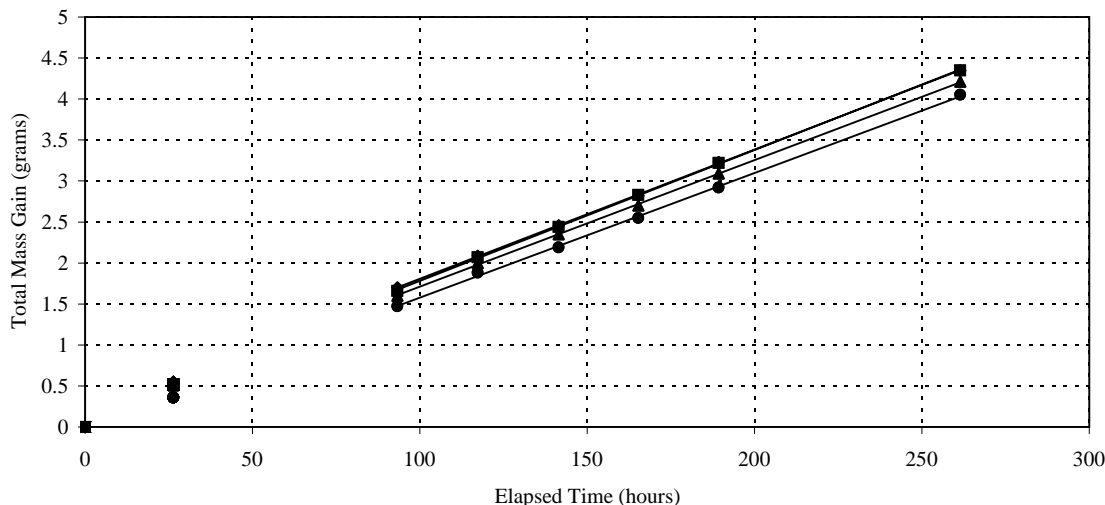
**Test Results:**

Specimen	Side Facing Desiccant	Water Vapor Transmission (WVT)			Permeance			
		Average Thickness (in)	grains per hr- ft. <sup>2</sup>	grams per hr- m <sup>2</sup>	grains per hr- ft. <sup>2</sup> -inHg (Perms)	grams per hr- m <sup>2</sup> -Pa	ng / Pa*s*m <sup>2</sup>	
1	45681	B	0.506	0.35	0.24	0.77	4.39E-08	44
2	45682	B	0.505	0.35	0.24	0.77	4.43E-08	44
3	45683	B	0.497	0.34	0.23	0.75	4.29E-08	43
4	45684	B	0.508	0.33	0.23	0.74	4.21E-08	42
		<b>Average:</b>	0.50	0.34	0.24	0.76	4.33E-08	43
		<b>Std. Dev.:</b>	0.00	0.01	0.01	0.02	9.64E-10	1
		<b>Range<sup>1</sup>:</b>	2%	6%	6%	5%	5%	5%

Percent Difference Between the Minimum and Maximum Tested Specimen: 4.93%

Note: All (4) specimens are required to meet the Canadian requirement (A permeance less than 1.04 perms)

<sup>1</sup> The range is calculated as the percent of the average.



**Figure A1: Total Mass Change vs. Elapsed Time**

NOTE: The slope of the last six points is taken as the water vapor transmission rate

This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. NTA, Inc. makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. NTA, Inc. assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which NTA, Inc. has no control. NTA, Inc. has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

# 55150 PREMIUM MOISTURE VAPOR BARRIER



## APPLICATION

BRUSH, ROLLER, SPRAY

## CLEAN UP INFORMATION & CAUTIONS

CLEAN UP EQUIPMENT WITH WARM WATER  
SEE MSDS FOR SPECIFIC PRECAUTIONS

## SURFACE PREPARATION

SURFACES MUST BE DRY AND FREE OF ALL  
DUST, DIRT, OIL, OR OTHER CONTAMINATES.

## CRACK TOUCH UP

1. REMOVE LOOSE PAPER AND MUD SURROUNDING  
CRACKED AREA (I.E. "V" TECHNIQUE WITH RAZORBLADE)
2. PREFILL AREA WITH HOT MIX MUD
3. FIBER MESH OR PAPER TAPE OVER PREFILLED AREA
4. MUD FIBER MESH OR PAPER TAPED AREA
5. SAND AREA
6. APPLY MOISTURE VAPOR BARRIER AT PROPER WET FILM  
THICKNESS OVER AREA AND ALLOW TO DRY
7. PAINT AREA

## PRODUCT CHARACTERISTICS

GLOSS—EGGSHELL

PH LEVEL—7.5–9

WEIGHT SOLIDS—39%  $\pm$  2%

VOLUME SOLIDS—29%  $\pm$  2%

VISCOSITY—80–85 KU

SPECIFIC GRAVITY—1.154

VOC—.25 LB/GL

VOC (LESS WATER) - 0.76 LB/GL

DRY TIME (77° AT 50% R.H.)

TO TOUCH—1 HOUR

TO RECOAT—1 HOUR

*DRY TIMES MAY VARY DEPENDING  
ON TEMPERATURE, HUMIDITY, AND  
DEGREE OF AIR MOVEMENT*

**hchemtecinc**

ISO 9001:2008 CERTIFIED

310 S Bellis Street  
Wausau, WI 54403

Phone: 715-845-7221  
Toll Free: 800-433-6331

Fax: 715-848-9230

E-mail: [hciassist@hcinfo.com](mailto:hciassist@hcinfo.com)