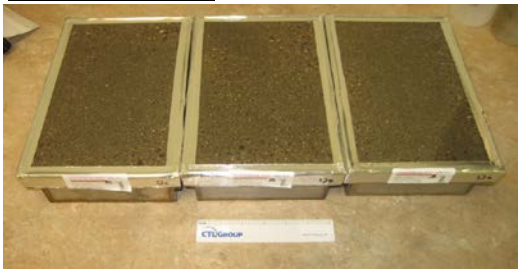
Client:	**Allied Construction Technologies, Inc.**	CTLGroup project no.:	**281337**
Project:	**Allied Construction E96 Testing**	CTLGroup project mgr.:	**H. Kanare**
		Analyst/Technician:	**E. Rodenkirch/E. Alikadic**
Contact:	**Dawn Parnoff**	Approved:	**H. Kanare**
		Report Date:	**25-Oct-12**

ASTM E96-10 Standard Test Method for Water Vapor Transmission of Materials

RESULTS

AC-Tech 2170-12mils **0.094** **net perms (grains h^{-1} ft^{-2} in Hg^{-1})**

SPECIMEN PHOTOGRAPH



SPECIMEN INFORMATION

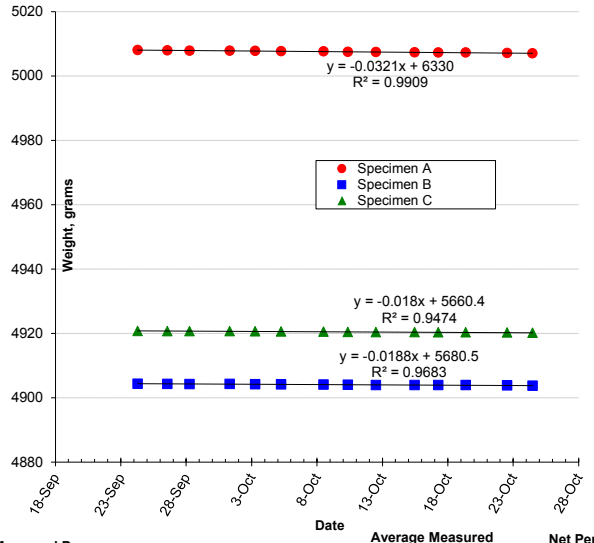
Client ID	**AC-Tech 2170-12mils**
CTLGroup ID	**3210102**
Material type	**Epoxy**
Concrete cast date	**6-Aug-12**
Moist cure	**3 days**
Drying	**29 days**
Surface Profile	**CSP-3**
Coating Applied	**7-Sep-12**
Concrete thickness, in.	**1-in.**
Avg. Coating thickness, in.	**0.012**
Exposed area, in^2.	**56.3**
Mix Ratio A:B (V:V)	**2.35:1**
No. Coats	**1**
No. Grams/Coat	**14.8**
Balance	**EP6102C s/n M028112**
Last Calibration	**7-Feb-12**
Prepared by	**E. Alikadic**

DATA COLLECTED

Specimen A		Specimen B		Specimen C	
date	**wt, grams**	**date**	**wt, grams**	**date**	**wt, grams**
9/17/12 6:23	5008.23	9/17/12 6:23	4904.33	9/17/12 6:24	4920.80
9/19/12 6:14	5008.17	9/19/12 6:15	4904.32	9/19/12 6:15	4920.77
9/21/12 6:11	5008.16	9/21/12 6:12	4904.35	9/21/12 6:12	4920.77
9/24/12 6:54	5008.02	9/24/12 6:54	4904.31	9/24/12 6:55	4920.71
9/26/12 13:29	5007.94	9/26/12 13:30	4904.29	9/26/12 13:30	4920.64
9/28/12 6:14	5007.84	9/28/12 6:14	4904.23	9/28/12 6:14	4920.64
10/1/12 7:43	5007.83	10/1/12 7:44	4904.26	10/1/12 7:44	4920.68
10/3/12 6:24	5007.75	10/3/12 6:24	4904.19	10/3/12 6:25	4920.61
10/5/12 6:04	5007.66	10/5/12 6:04	4904.10	10/5/12 6:05	4920.56
10/8/12 11:54	5007.60	10/8/12 11:55	4904.08	10/8/12 11:55	4920.52
10/10/12 8:34	5007.48	10/10/12 8:34	4904.02	10/10/12 8:34	4920.41
10/12/12 11:59	5007.40	10/12/12 11:59	4903.92	10/12/12 12:00	4920.34
10/15/12 11:09	5007.34	10/15/12 11:09	4903.93	10/15/12 11:09	4920.34
10/17/12 6:22	5007.29	10/17/12 6:23	4903.90	10/17/12 6:23	4920.29
10/19/12 8:49	5007.25	10/19/12 8:49	4903.90	10/19/12 8:50	4920.31
10/22/12 12:47	5007.13	10/22/12 12:47	4903.82	10/22/12 12:48	4920.26
10/24/12 11:22	5007.00	10/24/12 11:23	4903.73	10/24/12 11:23	4920.16

Results linear in boxed range used for calculations.

DATA GRAPH



CALCULATION OF RESULTS

	Water Vapor Transmission, grains h^{-1} m^{-2}			Measured Permeance, Perms grains h^{-1} ft^{-2} in Hg^{-1}			Average Measured Permeance, Perms grains h^{-1} ft^{-2} in Hg^{-1}	Net Perms, Corrected for Concrete Substrate grains h^{-1} ft^{-2} in Hg^{-1}
	Specimen A	Specimen B	Specimen C	Specimen A	Specimen B	Specimen C	All Specimens	
AC-Tech 2170-12mils	**0.037**	**0.022**	**0.021**	**0.13**	**0.074**	**0.071**	**0.091**	**0.094**
Control Concrete	**0.88**	**0.67**	**0.73**	**3.0**	**2.3**	**2.5**	**2.6**	**--**
Aluminum Blanks	**<0.001**	**<0.001**	**--**	**<0.01**	**<0.01**	**--**	**<0.01**	**--**

Notes
1. Water Method with coated side facing 50%RH/73°F and bottom side over water. Specimens exposed over 6.75 x 10.75 x 2.0-in. stainless steel flanged pans using SM5143 vacuum sealant tape. Results are specifically for these test conditions
2. Permeance in PERMS (grains h^{-1} ft^{-2} in Hg^{-1}) applies to specimens at thickness tested.
3. Net permeance is calculated from the sum of the inverse perm values. These are a measure of resistance to moisture vapor movement: $1/Perm_{(total)} = 1/Perm_{(concrete)} + 1/Perm_{(coating)}$
4. Uncoated concrete substrate (0.6 w/c) and aluminum blanks are used as control specimens.
5. Calculation by least squares linear regression analysis per ASTM E96-10 Sect. 13.
6. These results represent specifically the samples submitted for testing. This report may not be reproduced except in its entirety.