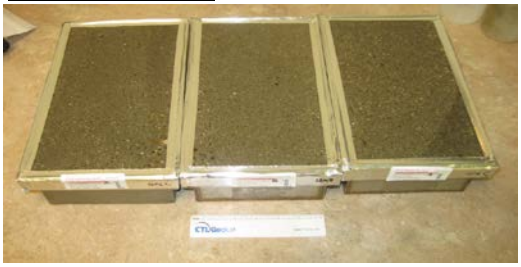
Client:	**Allied Construction Technologies, Inc.**	CTLGroup project no.:	**281337**
Project:	**Allied Construction E96 Testing**	CTLGroup project mgr.:	**H. Kanare**
		Analyst/Technician:	**E. Rodenkirch/E. Alikadic**
Contact:	**Dawn Parnoff**	Approved:	**H. Kanare**
		Report Date:	**25-Oct-12**

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

RESULTS

AC-Tech 2170 FC-12mils **0.072** **net perms (grains h^{-1} ft^{-2} in Hg^{-1})**

SPECIMEN PHOTOGRAPHY



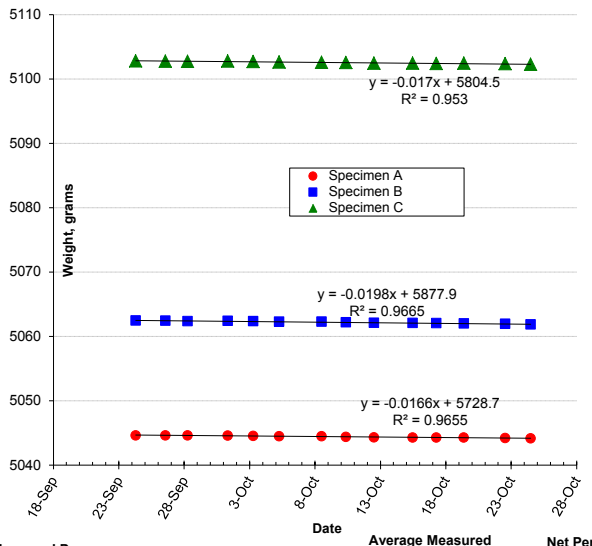
SPECIMEN INFORMATION

Client ID	**AC-Tech 2170 FC-12mils**
CTLGroup ID	**3210107**
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)	**2.00:1**
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 6:25	5044.69	9/17/12 6:25	5062.55	9/17/12 6:26	5102.84
9/19/12 6:17	5044.61	9/19/12 6:18	5062.50	9/19/12 6:18	5102.80
9/21/12 6:13	5044.71	9/21/12 6:13	5062.52	9/21/12 6:14	5102.85
9/24/12 6:56	5044.61	9/24/12 6:57	5062.46	9/24/12 6:57	5102.79
9/26/12 13:31	5044.60	9/26/12 13:32	5062.44	9/26/12 13:32	5102.74
9/28/12 6:16	5044.59	9/28/12 6:16	5062.36	9/28/12 6:16	5102.72
10/1/12 7:45	5044.58	10/1/12 7:45	5062.42	10/1/12 7:46	5102.77
10/3/12 6:26	5044.53	10/3/12 6:26	5062.37	10/3/12 6:27	5102.70
10/5/12 6:06	5044.48	10/5/12 6:06	5062.27	10/5/12 6:06	5102.62
10/8/12 11:56	5044.46	10/8/12 11:56	5062.27	10/8/12 11:56	5102.56
10/10/12 8:36	5044.37	10/10/12 8:36	5062.17	10/10/12 8:36	5102.54
10/12/12 12:01	5044.29	10/12/12 12:01	5062.11	10/12/12 12:01	5102.45
10/15/12 11:10	5044.28	10/15/12 11:11	5062.07	10/15/12 11:11	5102.43
10/17/12 6:25	5044.27	10/17/12 6:25	5062.05	10/17/12 6:26	5102.40
10/19/12 8:54	5044.26	10/19/12 8:55	5062.01	10/19/12 8:55	5102.43
10/22/12 12:49	5044.20	10/22/12 12:49	5061.94	10/22/12 12:49	5102.36
10/24/12 11:24	5044.13	10/24/12 11:24	5061.86	10/24/12 11:25	5102.26

DATA GRAPH



Results linear in boxed range used for calculations.

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 FC-12mils	**0.019**	**0.023**	**0.020**	**0.066**	**0.078**	**0.067**	**0.070**	**0.072**
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.