Client:	**Koster American Corporation**	CTLGroup project no.:	**281382**
Project:	**Koster E96 & D7234 Testing**	CTLGroup project mgr.:	**H. Kanare**
		Analyst/Technician:	**M. Klaric/D. Adams**
Contact:	**Mr. Basil S. Mewes**	Approved:	**E. Rodenkirch**
		Report Date:	**19-Jul-13**

ASTM E96-12 Standard Test Method for Water Vapor Transmission of Materials

RESULTS

VAP I 2000 p @ 150sf/gal **0.087** **net perms (grains h^{-1} ft^{-2} in Hg^{-1})**

SPECIMEN PHOTOGRAPH

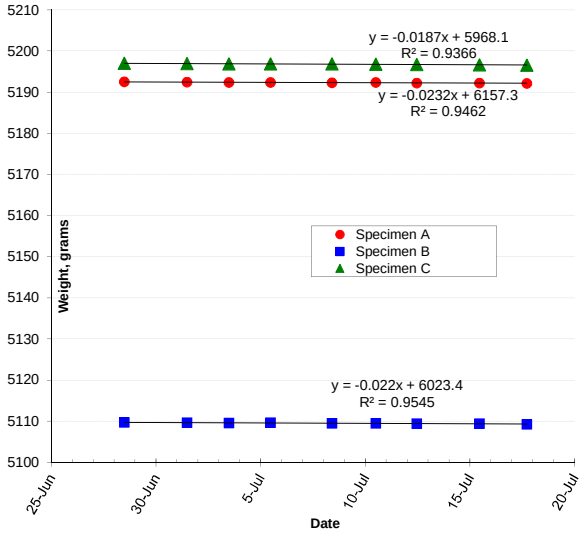
SPECIMEN INFORMATION

Client ID	**VAP I 2000 p @ 150sf/gal**
CTLGroup ID	**3406808**
Material type	**Epoxy**
Concrete cast date	**18-Mar-13**
Moist cure	**3 days**
Drying	**70 days**
Surface Profile	**CSP-3**
Coating Applied	**30-May-13**
Concrete thickness, in.	**1-in.**
Avg. Coating thickness, in.	**0.011**
Exposed area, in^2.	**56.3**
Mix Ratio A:B (wt:wt)	**2.27:1**
No. Coats	**1**
No. Grams/Coat	**13.60**
Balance	**EP6102C s/n M028112**
Last Calibration	**5-Feb-13**
Prepared by	**D. Adams**

DATA COLLECTED

Specimen A		Specimen B		Specimen C	
date	**wt, grams**	**date**	**wt, grams**	**date**	**wt, grams**
6/10/13 12:24	5192.71	6/10/13 12:25	5109.90	6/10/13 12:25	5197.21
6/12/13 12:58	5192.79	6/12/13 12:59	5109.95	6/12/13 12:59	5197.30
6/14/13 9:27	5192.72	6/14/13 9:28	5109.89	6/14/13 9:28	5197.20
6/17/13 10:08	5192.64	6/17/13 10:08	5109.85	6/17/13 10:08	5197.19
6/19/13 6:02	5192.56	6/19/13 6:02	5109.75	6/19/13 6:02	5197.04
6/21/13 16:25	5192.55	6/21/13 16:25	5109.77	6/21/13 16:26	5197.07
6/24/13 10:49	5192.56	6/24/13 10:49	5109.76	6/24/13 10:49	5197.07
6/28/13 11:31	5192.56	6/28/13 11:32	5109.77	6/28/13 11:32	5197.07
7/1/13 11:28	5192.49	7/1/13 11:28	5109.68	7/1/13 11:29	5196.97
7/3/13 11:18	5192.42	7/3/13 11:19	5109.61	7/3/13 11:19	5196.94
7/5/13 10:57	5192.37	7/5/13 10:57	5109.65	7/5/13 10:57	5196.89
7/8/13 9:31	5192.35	7/8/13 9:31	5109.56	7/8/13 9:32	5196.87
7/10/13 11:43	5192.38	7/10/13 11:43	5109.53	7/10/13 11:43	5196.85
7/12/13 10:51	5192.26	7/12/13 10:51	5109.44	7/12/13 10:51	5196.76
7/15/13 10:34	5192.24	7/15/13 10:34	5109.42	7/15/13 10:34	5196.69
7/17/13 17:06	5192.16	7/17/13 17:06	5109.30	7/17/13 17:06	5196.56

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	
VAP I 2000 p @ 150sf/gal	**0.021**	**0.025**	**0.027**	**0.074**	**0.087**	**0.091**	**0.084**	**0.087**
Control Concrete	**0.69**	**0.69**	**1.1**	**2.4**	**2.4**	**3.8**	**2.9**	**--**
Aluminum Blanks	**0.002**	**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 E96-12 Sect. 13.
6. These results represent specifically the samples submitted for testing. This report may not be reproduced except in its entirety

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