Client:	**Koster American Corporation**	CTLGroup project no.:	**281326**
Project:	**VAP 1 2000 FS E96 & D7234 Test**	CTLGroup project mgr.:	**H. Kanare**
		Analyst/Technician:	**E. Alikadic/E. Rodenkirch**
Contact:	**Mr. Basil Mewes**	Approved:	**H. Kanare**
		Report Date:	**30-Jul-12**

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

RESULTS

Koster VAP 1 2000 FS 100sf/gal **0.047** **net perms (grains h^{-1} ft^{-2} in Hg^{-1})**

SPECIMEN PHOTOGRAPH

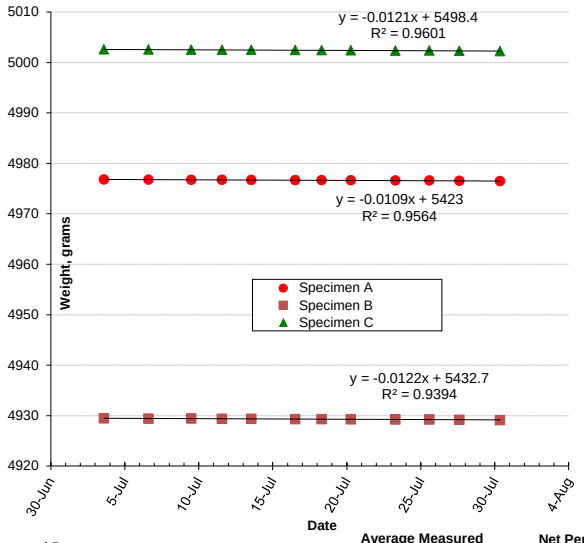
SPECIMEN INFORMATION

	Koster VAP 1 2000 FS
Client ID	**100sf/gal**
CTL Group ID	**3132402**
Material type	**Epoxy**
Concrete cast date	**14-May-12**
Moist cure	**3 days**
Drying	**20**
Surface Profile	**lapped then CSP3**
Coating Applied	**7-Jun-12**
Concrete thickness, in.	**1-in.**
Avg. Coating thickness, in.	**0.016**
Exposed area, in^2.	**56.35**
Mix Ratio A:B (V:V)	**2:1**
No. Coats	**1**
No. Grams/Coat	**19.77**
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**
6/22/12 5:48	4976.90	6/22/12 5:49	4929.56	6/22/12 5:49	5002.69
6/25/12 6:33	4976.83	6/25/12 6:34	4929.50	6/25/12 6:34	5002.64
6/29/12 8:57	4976.84	6/29/12 8:57	4929.50	6/29/12 8:57	5002.64
7/3/12 14:18	4976.78	7/3/12 14:18	4929.44	7/3/12 14:19	5002.57
7/6/12 14:35	4976.75	7/6/12 14:35	4929.37	7/6/12 14:35	5002.54
7/9/12 11:50	4976.74	7/9/12 11:50	4929.41	7/9/12 11:51	5002.53
7/11/12 13:40	4976.72	7/11/12 13:40	4929.36	7/11/12 13:41	5002.50
7/13/12 13:10	4976.70	7/13/12 13:10	4929.36	7/13/12 13:11	5002.49
7/16/12 12:18	4976.66	7/16/12 12:18	4929.30	7/16/12 12:18	5002.44
7/18/12 7:09	4976.65	7/18/12 7:09	4929.30	7/18/12 7:10	5002.41
7/20/12 6:42	4976.62	7/20/12 6:42	4929.26	7/20/12 6:42	5002.38
7/23/12 6:45	4976.59	7/23/12 6:45	4929.21	7/23/12 6:45	5002.34
7/25/12 13:57	4976.60	7/25/12 13:57	4929.22	7/25/12 13:57	5002.37
7/27/12 14:37	4976.52	7/27/12 14:37	4929.14	7/27/12 14:37	5002.30
7/30/12 8:31	4976.47	7/30/12 8:32	4929.09	7/30/12 8:32	5002.23

DATA GRAPH



Results linear in boxed range used for calculations.

CALCULATION OF RESULTS

	Water Vapor Transmission, grams 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	
Koster VAP 1 2000 FS 100sf/gal	**0.012**	**0.014**	**0.014**	**0.043**	**0.048**	**0.048**	**0.046**	**0.047**
Control Concrete	**0.68**	**0.71**	**0.74**	**2.4**	**2.4**	**2.5**	**2.4**	**--**
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.