

**CLIENT:** American Polymer  
155 W. 9210 South  
Sandy, UT 84070  
Attn: Bruce Strong

ENGINEERING SERVICES  
DEPARTMENT

**MATERIAL:** Eight concrete blocks approximately 11 in. x 11 in. x 1½ in. Four of the blocks were coated and four were uncoated as submitted by the client.

**TESTS:** Water Vapor Transmission testing per ASTM E96-93 at 73°F and 50% relative humidity was conducted. The blocks were tested using the wet cup method with the coating on the outside surface.

The fourth block from each group was tested as a control.

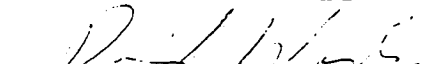
**RESULTS:** The results are presented in Table 1. Graphical results are also presented in Figure 1.

The results show that the coating on the blocks acted to retard the water vapor transmission, but did not totally stop the flow of the water vapor.

TABLE 1  
WATER VAPOR TRANSMISSION TEST RESULTS

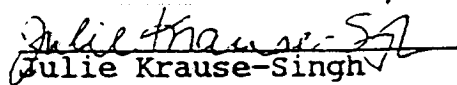
Specimen No.	Water Vapor Transmission grains/hr-ft <sup>2</sup>	Permeance US PERMS
COATED BLOCKS		
1	0.008	0.022
2	0.017	0.047
3	0.055	0.154
Average	0.026	0.074
UNCOATED BLOCKS		
1	0.091	0.256
2	0.093	0.261
3	0.089	0.251
Average	0.091	0.256

TESTS SUPERVISED BY:

  
David W. Woods

Director, Engineering Services

TESTS CONDUCTED BY:

  
Julie Krause-Singh

Section Manager

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# WATER VAPOR TRANSMISSION

AMERICAN POLYMER L4-0276

