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TABLE 1—PROPERTIES OF CONCRETE AND MORTAR MIXTURES

Mix Code	Mix type	Mix proportions	W/C	Std. cube str.(MPa)
A	concrete	1:2:4	0.60	25.8
B	concrete	1:1.5:3	0.47	36.6
P	mortar	1:3	0.56	19.3
Q	mortar	1:5	0.82	6.2
L	mortar	1:1:5	1.00	7.5

TABLE 2—QUALITATIVE INFORMATION FROM SORPTIVITY TESTS

Mix	Curing Method, Duration and Surface								
	0	1	3	7	F	7(T)	F(T)	P	G
A	d							d	
B	d							d	
P	d	d				d		d	
Q	d,3	d,3	d,4	d,4	d,4				
L	d,4	d,4	d	d	d				

d - full depth of specimen (100 mm) penetrated in 49 hrs of absorption.

3/4 - either 3 or 4 data points only (corresponding to 9 and 25 hrs. respectively of absorption) used for sorptivity plot, due to deviation from linearity; 5 data points (corresponding to 49 hrs.) were available.

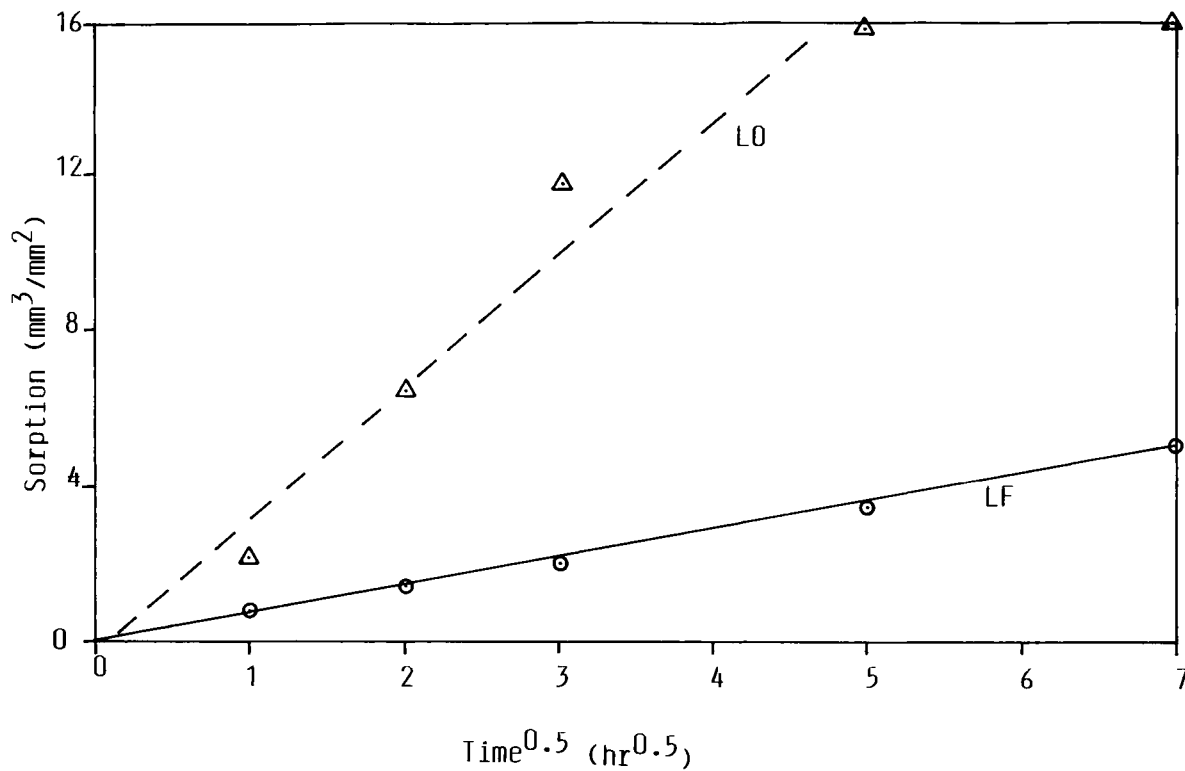


Fig. 1—Comparison of sorptivity plots from lime mortar specimens water cured for 0 and 27 days, showing deviation from linearity for the 0 days specimens

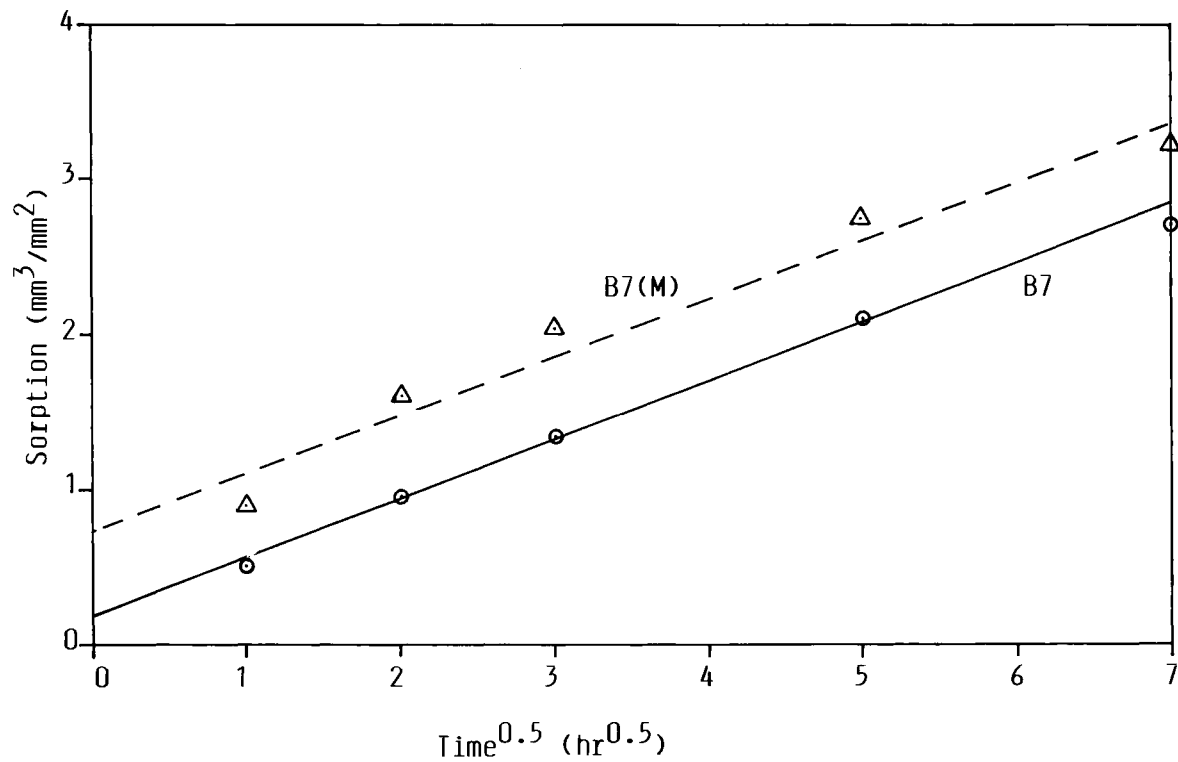


Fig. 2—Comparison of intercepts in sorptivity plots for 1:1.5:3 concrete specimens coated with 1:3 mortar (B7(M)) and uncoated (B7)

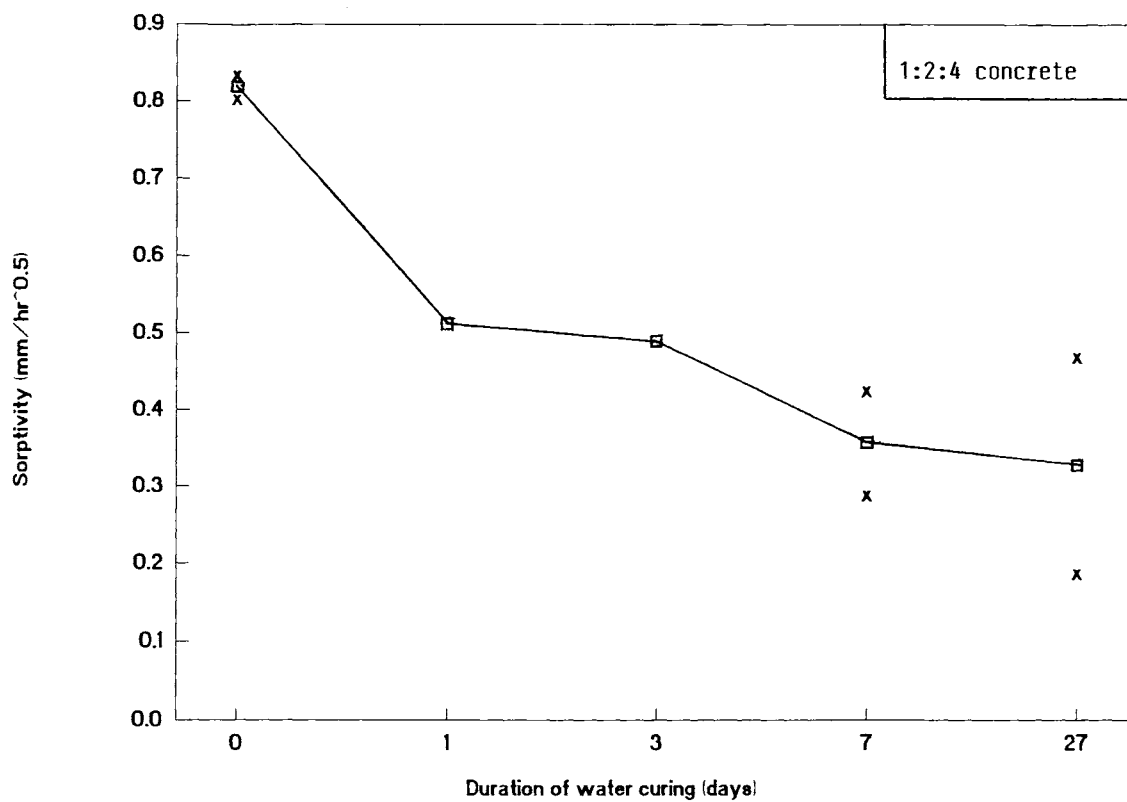


Fig. 3—Variation of sorptivity with duration of water curing for 1:2:4 concrete

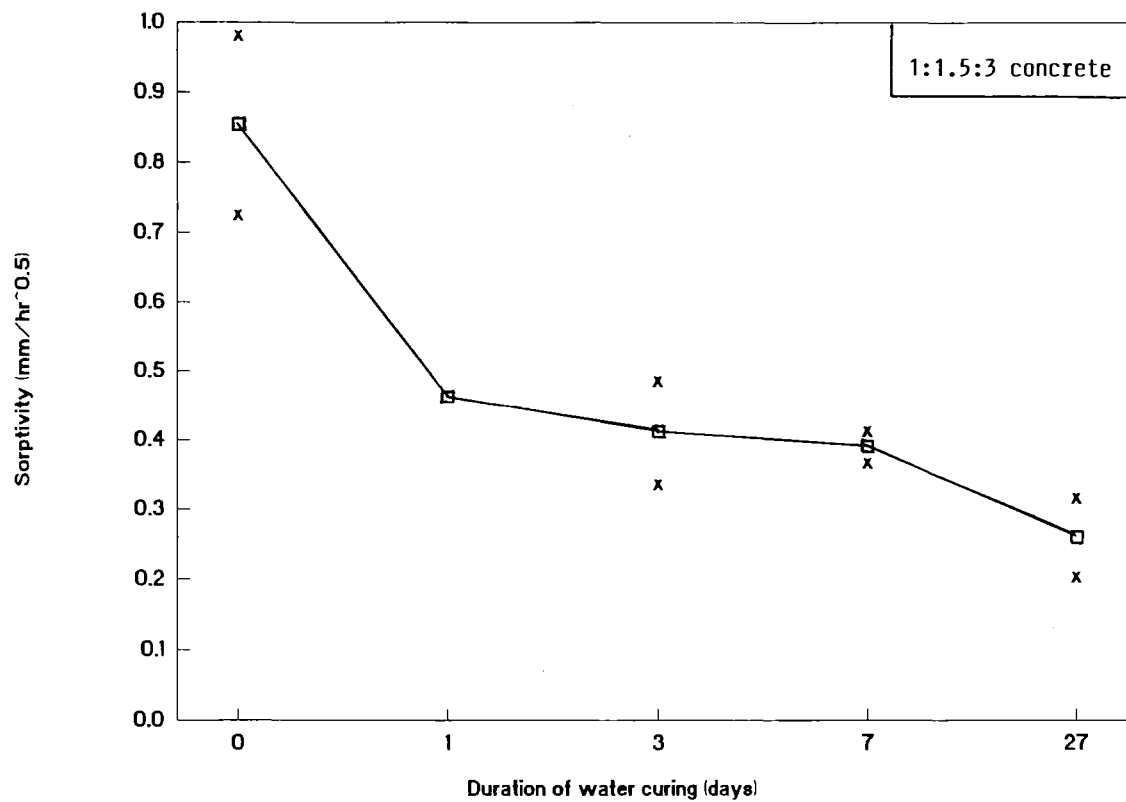


Fig. 4—Variation of sorptivity with duration of water curing for 1:1.5:3 concrete

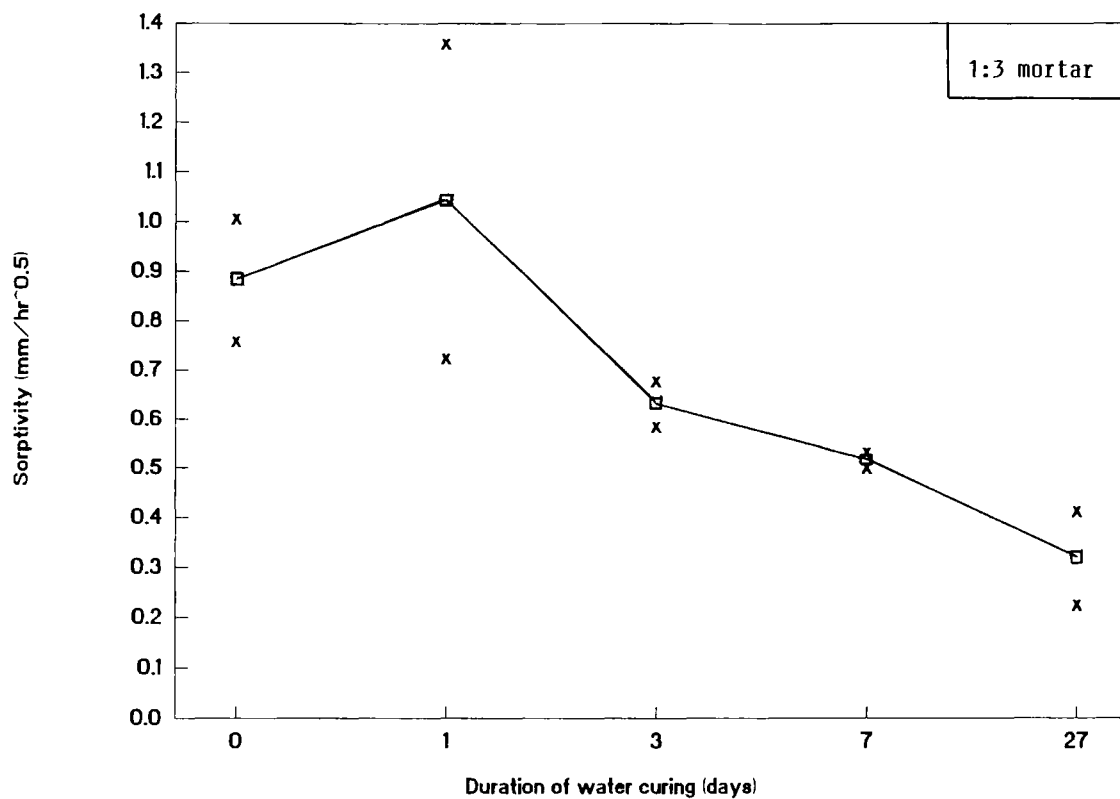


Fig. 5—Variation of sorptivity with duration of water curing for 1:3 mortar

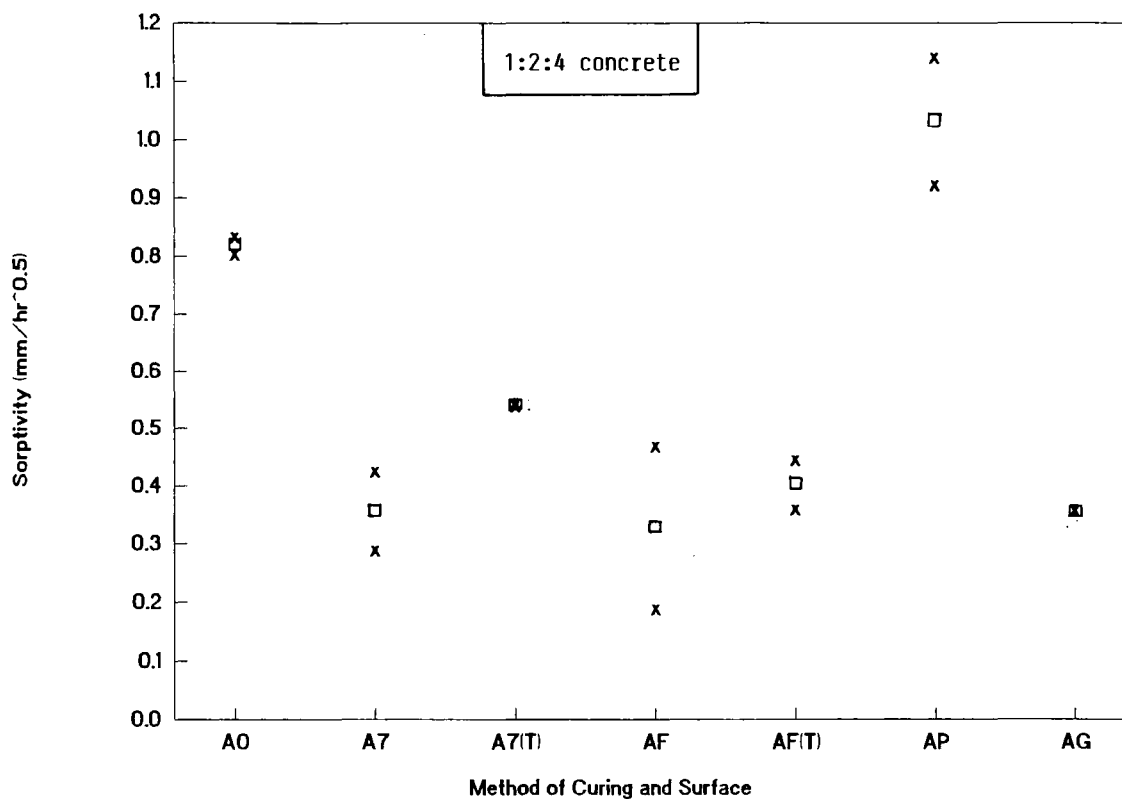


Fig. 6—Variation of sorptivity with method and duration of curing and absorbing surface for 1:2:4 concrete