

Mortar Tests

Table C-1

CEMENT/HYDRATED LIME/SAND

Blends

	1 : 1 : 6			1 : 2 : 9			Norm/method used for test
	Metric		U.S.	Metric		U.S.	
Water content	gr.	200		200	gr.	200	
Water/binder ratio		0.72		0.72		0.65	
Penetration	mm	7	Inch	9/32	mm	7	Inch
Set (beginning)	h	1.3		1.3	h	1	
Bulk density (no curing)	kg/m³	2100	lb/ft³	131	kg/m³	2100	lb/ft³
Air content	%	0		0	%	0	
Elast. Moduli	Mpa		Psi		Mpa		Psi
28 days		16200		2349		15595	
6 months		22010		3191		19300	
12 months		22210		3220		19700	
24 months		22150		3212		19650	
Flexural Strength	N/mm²		Psi		N/mm²		Psi
7 days		2.05		297		1.65	
28 days		1.95		283		1.55	
6 months		2.1		304		1.5	
12 months		2.2		319		1.7	
24 months		2.2		319		1.75	
Compressive Strength	N/mm²		Psi		N/mm²		Psi
7 days		5.02		728		4.96	
28 days		7.7		1116		5.56	
6 months		8.1		1174		5.75	
12 months		8.7		1261		6.05	
24 months		8.5		1232		5.95	
Permeability (Vapour exch. Gr of air x m2 x hour x mmHg)		0.23		0.23		0.25	
Shrinkage at 28 days	mm.m¹	0.63	%	0.063	mm.m¹	0.42	%
Water absorption at compl. Carbonation	l.h.m²	0.23		0.23	l.h.m²	0.25	
Capilarity at compl. Carbonation	g.min	1.08		1.08	g.min	6.86	

Norm/method used for test

EN459-2 p. 5.5.3
EN459-2 P. 6.2
EN459-2 P.5.8
EN459-2 P. 5.7
French Std. For
one coat plasters
As above

EN459-2 P. 5.1

At complete carb
French Std. For
one coat plasters