

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		gr.	200		
Water/binder ratio		0.72			0.65		
Penetration	mm	7	Inch	mm	7	Inch	EN459-2 p. 5.5.3
Set (beginning)	h	1.3		h	1		EN459-2 P. 6.2
Bulk density (no curing)	kg/m³	2100	lb/ft³	kg/m³	2100	lb/ft³	EN459-2 P.5.8
Air content	%	0		%	0		EN459-2 P. 5.7
Elast. Moduli	Mpa		Psi	Mpa		Psi	French Std. For one coat plasters
28 days		16200			15595		As above
6months		22010			19300		
12 months		22210			19700		
24 months		22150			19650		
Flexural Strength	N/mm²		Psi	N/mm²		Psi	
7 days		2.05			1.65		
28 days		1.95			1.55		EN459-2 P. 5.1
6 months		2.1			1.5		
12 months		2.2			1.7		
24 months		2.2			1.75		
Compressive Strength	N/mm²		Psi	N/mm²		Psi	
7 days		5.02			4.96		
28 days		7.7			5.56		
6 months		8.1			5.75		
12 months		8.7			6.05		
24 months		8.5			5.95		
Permeability (Vapour exch. Gr of air x m2 x hour x mmHg		0.23			0.25		At complete carb
Shrinkage at 28 days	mm.m¹	0.63	%	mm.m¹	0.42	%	French Std. For one coat plasters
Water absorption at compl. Carbonation	l.h.m²	0.23		l.h.m²	0.25		
Capilarity at compl. Carbonation	g.min	1.08		g.min	6.86		