

## Mortar products : dry and wet

Product Name	High-Temp™	Smoothset™		Air-Set™		Air-Set 3000 EG	K-Bond®		Mul-Set® F		Coastal® 90	Coastal 90 AS
	heat setting	wet, air setting	dry, air setting	wet, air setting	dry, air setting	wet, air setting	wet, air setting	dry, air setting	wet, air setting	dry, air setting	wet, air setting	dry, air setting
Classification temperature rating, °F (°C)	3000 (1649)	2850 (1566)	2900 (1593)	3000 (1649)			3200 (1760)		3250 (1788)	3300 (1816)		
Type of Brick	IFB						IFB/Insalcor			Firebrick		
Quantities required, lb (kg)/1000 brick <sup>1</sup>	220 - 250 (100 - 113)	250 - 320 (113 - 145)	180 - 240 (82 - 109)	360 - 400 (163 - 181)	275 - 300 (125 - 136)	250 - 320 (113 - 145)	300 - 360 (136 - 163)	220 - 280 (100 - 127)	300 - 350 (136 - 159)	200 - 300 (91 - 136)	240 - 320 (109 - 145)	450 - 550 (204 - 249)
Lbs required to Brush Coat, 100 sq ft (9 sq m)	26 (12)	22 (10)	20 (9)	22 (10)	20 (9)	22 (10)		20 (9)	22 (10)	20 (9)	-	
Average recommended water, %												
Trowel	26	-	29	-	31	-		20	-	22	-	23
Dip	44	-	50	-	52	-		37	-	33	-	45
Pounds per Bag, lb (kg)	50 (23)	55 (25), drum	50 (23)	55 (25), drum	50 (23)	55 (25), drum	55 (25), drum	50 (23)	55 (25), drum	50 (23)	55 (25), drum	50 (23)
Shelf life, months	12	3 - 6	12	6 - 12	12	6 - 9	>12	12	6 - 12	12	6 - 12	12
Chemical Analysis, % Weight basis after firing												
Alumina, Al <sub>2</sub> O <sub>3</sub>	45	36	38	46	45	44	47		66		87	
Silica, SiO <sub>2</sub>	50	57	58	47	48	50	47	48	28	24	8	7
Ferric oxide, Fe <sub>2</sub> O <sub>3</sub>	1.0	0.9	1.0	0.8	1.1	0.8	0.9		1.2		0.3	0.2
Titanium oxide, TiO <sub>2</sub>	2.2	1.7	1.9	1.7	1.9		0.7	1.1	2.2			0.1
Calcium oxide, CaO	0.2			0.1	0.2	0.1		0.5	0.1		trace	
Magnesium oxide, MgO	0.1						0.4	0.1				
Alkalies as Na <sub>2</sub> O	0.6	4	2.8	2.1	2.2	2.6	4.3	2.1	-			
Boron oxide, B <sub>2</sub> O <sub>3</sub>	0.7	-										

<sup>1</sup> Amount of mortar used for laying either insulating firebrick or firebrick varies according to masonry practice. A range of quantities is shown for each respective type of brick listed above.