

Chemical Composition and Physical Properties of Ultralow-Cement Vibratable and Spray-Gunning Composition

	Vitratable	Spray-Gunning
Chemical Composition, %		
Al ₂ O ₃	82.6	77.2
SiO ₂	12.9	18.0
TiO ₂	2.0	2.4
Fe ₂ O ₃	1.0	1.1
CaO	0.8	0.7
Apparent Porosity, %, after firing to 815°C	14.6	13.6
Cold MOR, kg/cm ² , after firing to		
110°C	123	111
815°C	236	171
1100°C	239	268
1370°C	222	169
Cold crushing strength, kg/cm ² , after firing to		
110°C	521	338
815°C	1090	451
1100°C	1100	592
1370°C	1230	528
P.L.C., %, after heating at		
110°C	-	-0.1
815°C	-0.1	-0.1
1100°C	-0.3	-0.3
1370°C	-0.1	+0.9

Source: UNITECR '97 Proceedings.