

■ CONSUMPTIONS OF KF- αβγ FOR MAJOR APPLICATIONS

THICKNESS OF LAYER, MM	KF- αβγ CONSUMPTIONS, Kg per 1 m ²			
	PRECAST	SHIELDCRETE	PLASTCRETE	KF-αβγ
5				17
10				34
15			4.5	51
20		6	6	68
50	15	15	15	
100	30	30	30	

■ APPLICATION BY THE THIN LAYERS AT 5 MM

Prepare mix of 2 to 1 parts by the volumes to apply by trowels or skid vibrator as follows:

$$\text{KF- } \alpha\beta\gamma : \text{Water} = 2 : 1 = 0.196 \text{ m}^3 : 0.098 \text{ m}^3$$

■ APPLICATION BY THE LAYERS AT 25 MM

Prepare mix of 2 to 1.5 parts by the volumes to apply by shotcrete technique as follows:

$$\text{KF- } \alpha\beta\gamma : \text{Water} = 2 : 1.25 = 0.196 \text{ m}^3 : 0.123 \text{ m}^3$$

■ EXAMPLES OF MIX DESIGNS WITH KF- αβγ AS AN ADDITIVE FOR SHOTCRETE APPLICATIONS

● **SHIELDCRETE KF-αβγ** is a shotcrete mix designed for applications on/into earth formed constructions as a self-carrying, pre-reinforced, radiation-shielded, and waterproofed structure. SHIELDCRETE KF-αβγ eliminates the needs of wire mesh reinforcement and waterproofing arrangements.

● **PLASTCRETE KF-αβγ** is a shotcrete mix designed for applications on/into concrete/masonry structures as a protective coating that provides radiation attenuation with gas and liquid impermeability, with the highest adhesion to applied structure.

SHIELDCRETE KF-αβγ	Kg	m ³
Portland Cement type I; II	400	0.126
Coarse Sand #16	1,120	0.400
Pee gravel ¼"	400	0.158
KALMATRON® KF-αβγ	300	0.109
Water, 140 Liter or 37 Gal	141	0.141
Total	2,361	0.934

PLASTCRETE KF-αβγ	Kg	m ³
Portland Cement type I; II	500	0.158
Coarse Sand #16	1,400	0.555
KALMATRON® KF-αβγ	300	0.109
Water, 85 Liter or 23 Gal	175	0.175
Total	2,375	0.997