

Batch installation:

- ✓ Proposed mix designs are very popular in industry from 2005 (www.shieldcrete.com) by highest effectiveness and low cost of waterproofed coat at \$.12 per SF of 1" thick.
- ✓ Concrete mix contains basic aggregates for fine plaster by "PLASTCRETE" or structural placement by "SHIELDCRETE". Shown amount of water is enough to engage batch pumping ability. It looks hopelessly dry on a beginning, but a minute later this is perfect creamy batch with pump ability through the standard hose up to 500' (<http://youtu.be/FR35iUQqHlw>).
- ✓ Of course, you can use your own batch recipe or also you can choose liquid admixture K¹⁰⁰® as 10 OZ per 100 LB of cement or 0.75 Kg per 100 Kg of cement to get all advantages of KALMATRON® admixtures.

PUMPABLE MIXES FOR PLASTER AND SHOTCRETE JOBS

Table 1

Ingredients	SHIELDCRETE 6 SACKS>4,000 PSI = 28 MPa				PLASTCRETE 7 ½ SACKS>4,000 PSI =28 MPa			
	LB	CF	Kg	m ³	LB	CF	Kg	m ³
Cement Type I; II	564	2.84	335	0.105	700	3.555	400	0.126
Aggregate ¾" // 5 mm	750	4.63	445	0.188				
Coarse Sand	1830	13.10	1050	0.450	2640	18.839	1670	0.7157
Water 28 - 32 Gal*// Liter	235	5.45	140	0.140	266	4.436	152	0.1521
Air content 3%	0	0.81	0	0.11				
KALMATRON® KF-A	15 ÷17	0.17	10	0.0062	17.0	0.17	10	0.0062
Total	3396	27	1980	1.000	3623	27.00	2232	1.000
	W/C=0.417				W/C=0.38			

APPLICATION INSTRUCTION

■ DOSAGE

1. Use shown dosage of KF-A per 1 CY on a ready mix plant or 2 LB per sack of cement (94 LB). It is in a practice to dose KF-A by two "Coca Cola" cans per sack of cement on a job sites.
2. Do not dissolve KF-A with water. Just strew it into the batch.

■ W/C RATIO

1. For the best workability, use shown amount of water without correlation variable moistness of aggregates.
2. Slump should be at 2 ½" to 3 ½" (6.35 cm to 8.90 cm) on a moment of application.
3. On a moment of delivery from plant maximum slump should be at 3 ½" to 5" (8.90 cm to 13 cm).
4. Add 2 Liter/m³ or ½ Gallon/CY of water if batch still stiff.

■ EXPECTED RESULTS

- Pumpability is up to 500' ⇒ No Plasticizers is required
- Rebound is below 5% or no rebound at all ⇒ No Water Reducers is required
- Impermeability to any liquid from ¾" thick ⇒ No isolating membrane is required
- No shrinkage cracks ⇒ No fibers or mesh are required
- No curing is required ⇒ No curing compound, blankets, etc.

Example of application is shown on following link: <http://youtu.be/Lp4GoFuK0js>