

KALMATRON® KF-ASH APPLICATION INSTRUCTION

KALMATRON® KF-ASH is an additive to the concrete mixes containing up to 50% of IIW (Incinerated Industrial Waste) from the weight of the cement into the concrete mix. IIW are fly ash, slag ash, volcanic deposits or crumbled slag, etc. being integrated by KF-ASH provide stable insulating performance of conventional concrete mix up to the lightweight concretes.

■ **For batches with IIW weight between 35% and 55% from the weight of cement install batch by two steps of mixer loading.**

1. Balance at 0.5 Lbs/CF = 13 LB/CY or 8 Kg /m³ of KF-ASH of concrete/mortar mix.
2. Load dry IIW, Sand and KF-ASH into the mixer and mix for 5 minutes per each 1m³.
3. Add Cement and mix for another 5 minutes per each 1 m³.
4. Pour 75% of designed amount of water and mix for 4 minutes to get homogenous mix.
5. Load the rest of the aggregates into the mixer and mix for 2 minutes.
6. Add the rest of 25% of water to mix for 5 minutes. In a case of batch stiffness, gradually add water until that batch turn into the heavy, viscous slurry, but not to the watery-looking consistency.
7. Slump control is not relevant to this type of mix designs.

■ **For batches with IIW weight below 35% from the weight of cement, apply KF-ASH by one step of the mixer loading.**

1. Weigh KF-ASH at **0.4 Lb/CF** or **6 Kg/m³**.
2. Load dry aggregates, cement and KF-ASH into rotating to mix for 10 minutes.
3. Add designed amount of water to get viscous heavy batch.
4. Slump control is not relevant to this type of mix designs.

■ **For small volume batches up to 4 CF or 0.12 m³.**

1. Apply KF-ASH by **0.8 Lbs/CF** or **1.6 Kg/0.12m³** (13 Kg/m³).
2. Load KF-ASH into rotating mixer before pouring of water.
3. Slump control is not relevant to this type of mix designs.

■ **APPLICABILITY**

1. Production of the wall blocks and panels with thermal resistance higher than most known industrially supplied insulation materials.
2. Restoration of thermal resistance of aged or damaged panels or masonry walls, separators, industrial fridges, metallurgical plants, fortification structures, etc.