

## **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 volume of 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 volume between 35% and 55% from the volume of the concrete mix apply two steps of the mixer loading.**

1. Balance at 0.5 Lbs/CF = 13 LB/CY or 8 Kg of KF-ASH per 1 m<sup>3</sup> of concrete/mortar mix.
2. Load dry IIW, Sand and Cement into the mixer and mix for 1 minute.
3. Pour designed amount of water and mix for 2 minutes to get homogenous slur.
4. Load the rest of the aggregates into the mixer and mix for 2 minutes.
5. Stiffness of mix may occur when the natural moistness of ash and aggregates is unknown. In this case, the amount of water should be increased gradually until the batch turns into the heavy slurry, but not to the watery-looking consistency.

■ **For batches with IIW volume below 35% from the volume of the concrete mix apply KF-ASH by one step of the mixer loading.**

1. Weigh KF-ASH at 0.4 Lb/CF or 6 Kg/m<sup>3</sup>.
2. Load KF-ASH into rotating mixer before pouring of water.

■ **For small volume batches up to 4 CF or 0.12 m<sup>3</sup>.**

1. Apply KF-ASH by 0.8 Lbs/CF or 1.6 Kg/0.12m<sup>3</sup> (13 Kg/m<sup>3</sup>).
2. Load KF-ASH into rotating mixer before pouring of water.

■ **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.

■ **SAFETY**

Operation with KALMATRON® KF-ASH is similar to any other cement mixing jobs. Always use an approved respirator and rubber gloves. In case KALMATRON® KF-ASH is inhaled or gets in contact with the eyes, rinse and wash abundantly with water.