

KALMATRON® KF-Jet APPLICATION INSTRUCTIONS

KALMATRON® KF-Jet designed as an admixture to the dry cement powder and additive to the concrete/ mortar mixes for production of Fast Setting Cements and final batches with controlled setting time. Distinctive difference from known products is that the mortars and concrete after application has twice lower drying shrinkage, no cracks, higher compressive strength and effective hardening time without curing after.

■ PREPARATION FOR CEMENT APPLICATION

To achieve required level of performance, apply KF-Jet per 1000 Kg of cement as follows:

1. Apply 10 Kg of KF-Jet per 1000 Kg of cement to get KF-Jet 10 with 10÷20 min set time;
2. Apply 15 Kg KF-Jet per 1000 Kg of cement to get KF-Jet 5 with 5÷10 min set time;
3. Apply 20 Kg KF-Jet per 1000 Kg of cement to get KF-Jet 3 with 3÷5 min set time.
4. Proportional KF-Jet dosage reduction begins from 650 Kg of cement.

■ PREPARATION FOR CONCRETE BATCHING

1. Do not reduce KF-Jet dosages per weight of cement containing into the concrete mixes.
2. Apply KF-Jet as an admixture to the concrete/mortar mixes by 10; 15; or 20 [Kg/m³].
3. Setting time must be controlled by the water to cement ratio by prior testing.
4. Use water to cement ratio for concrete mixes at 0.49 and for mortars at 0.42.
5. For injections apply water to cement ratio at 0.65.

■ EXPECTED RESULTS

1. Shrinkage is lower at 2 to 3 times.
2. Exothermic heat is lower by 30% to 50%.
3. Compressive strength varies up to at 25% to 40%.
4. No cracks, flakes, efflorescence, dusty spots, sliding, and dilatation seams and gaps.

■ ESSENTIALS

1. Applicable with low grade cements or cements that lost or behind of they cementitious and hydration values without affectation on KF-Jet performance.
2. Ideal for rapid set casting of the trafficable areas, wall blocks, structural elements and architectural forms production.
3. Economical effect is based on reproduction of Ordinary Portland Cement into the Fast/Rapid setting Cements by simple mixing.