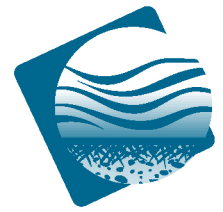




At the Lab. In the Field.
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INSTRUCTIONS FOR READY-MIX BATCH PLANT

Technical Bulletin No. 301
August 2001



**CONCRETE
WATERPROOFING**

QUESTIONS: 1-800-267-8280 or www.kryton.com

Product Description

Chemical admixture in dry powder form effective in creating waterproof concrete.

Effects on Plastic Concrete

- Reduces the water demand for a given slump
- Plasticizes the concrete (increases the slump)
- Retards the initial set
- Entrained air

Effects on Hardened Concrete

- Creates waterproof concrete
- Reduces shrinkage and cracking
- Improves freeze/thaw resistance
- Improves concrete durability

Compatibility with other admixtures

- KIM admixture is compatible with most admixtures, including water reducers and plasticizers.
- KIM usually replaces the use of air-entraining admixtures.
- KIM works very well with high-volume fly-ash mixtures (for mixes in excess of 30% fly-ash, consult a Kryton representative)
- KIM is helpful in the dispersion of fiber and silica fume.
- A test batch is recommended when using KIM in addition to other admixtures. For specific details on compatibility information, please contact the manufacturer.

Mix Design Adjustments

- Dosage of KIM is 2% of cementitious materials (incl. fly ash) by weight to a maximum of 8kg/m³ (13.5lbs/yd³).
- Reduce the water content by 5-10% depending on slump requirement.
- 0.39 - 0.42 water/cement ratio is recommended. Water/cement ratio must not exceed 0.45.
- Water reducer should be added to all mixes at the batch plant using concrete supplier's brand at standard recommended dosage rates.
- Ideal slump before the addition of KIM is 50mm - 65mm (2" - 2.5"). KIM admixture, in most cases, will increase the slump by approximately 10-25mm (0.4" - 1.0"). KIM will provide a more dramatic slump increase if added to higher slump mixtures.
- KIM adds approx. 2 - 5% air-entrainment depending on the mixture. Adjust or remove air-entraining admixtures (AEA) accordingly. In most cases KIM eliminates the need for AEA.
- Superplasticizer should be available for additional slump adjustments.
- For project specific details on mix design adjustments please contact the manufacturer.

Batching Considerations

- Consistency and control of water addition is important. Make sure that the drum of each truck is empty of any residual water before it is allowed to take on a new load. Do not use recycled water.
- Mix all ingredients (sand, aggregate, cement, water, fibers, admixtures) within drum and bring to a 50-65mm (2" - 2.5") slump prior to the addition of KIM.
- Turn KIM containers upside down once to loosen compacted material within the pail prior to removing the lid.
- Empty KIM admixture out of pails directly into concrete mixer.
- Bags can be thrown un-opened into the concrete mixer (SEE TECH BULLETIN 310 FOR USE OF KIM IN BAGS).
- Reseal partial pails to eliminate moisture contamination.
- After addition of KIM, mix for a minimum of 10 minutes at medium/high speed.
- KIM concrete's enhanced placement characteristics are best within 45 minutes from time of batching.
- Use superplasticizers to alter slumps and workability. Do not add water to the mix after the addition of KIM.

Safety

- KIM powder becomes caustic when mixed with water or moisture. Avoid contact with skin or eyes.
- Safety precautions for KIM concrete are no different than for normal concrete.
- See the Material Safety Data Sheet for this product.

TECHNICAL BULLETIN