

## ProPel HRHE

### ***HIGH-RANGE WATER-REDUCING ADMIXTURE FOR VERY EARLY HIGH STRENGTH CONCRETE PRODUCTS***

#### **DESCRIPTION:**

**ProPel HRHE** is a unique polycarboxylate based liquid chemical admixture formulation ideal for use in high performance and self consolidating concretes (SCC).

**ProPel HRHE** has been carefully designed to offer the combined benefits of a system of very powerful high-range water-reducing agents, unique viscosity modifiers *and* proprietary strength accelerating chemistries.

**ProPel HRHE** enhances the performance of plastic *and* hardened concrete, and is manufactured under rigid quality control measures to provide uniform, reliable results.

#### **USES:**

**ProPel HRHE** is very effective in the manufacture of precast and prestressed concrete products where reduced water content, improved workability & plasticity, reduced vibration, normal set times, reduced curing costs, improved cement performance and very high early strengths are desirable.

#### **ADVANTAGES:**

- Improves the quality of concrete by decreasing water-cement ratio up to 40%
- Improves concrete cohesiveness



- Improves workability, placeability and can provide self consolidation (SCC) properties
- Reduces placing & consolidation time and labor expense
- Reduces vibration issues & related noise
- Improves cement hydration and maximizes cement utilization, (max p.s.i./lb. of cement)
- Dramatically increases early and ultimate compressive and flexural strengths
- Reduces curing time and expense
- Improves appearance of formed surfaces
- Reduces permeability
- Increases relative durability – resists damage caused by freezing and thawing
- Improves resistance to sulfate attack

#### **DOSAGE RATE:**

**ProPel HRHE** is recommended for use at a dosage rate of 5 to 15 fluid ounces per 100 pounds (325 to 975 ml per 100 kg) of cement.

Because local job conditions vary, please contact a Pro Mix technical sales representative for further assistance if using outside recommended dosage ranges, or if special application needs exist.

### **SPECIFICATIONS:**

Conforms to ASTM C 494 Type A and F  
ASTM C-1017 Type 1  
AASHTO M 194 Type A and F  
CRD C 87 Type A and F

### **TECHNICAL NOTE:**

**ProPel HRHE** does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

### **COMPATIBILITY:**

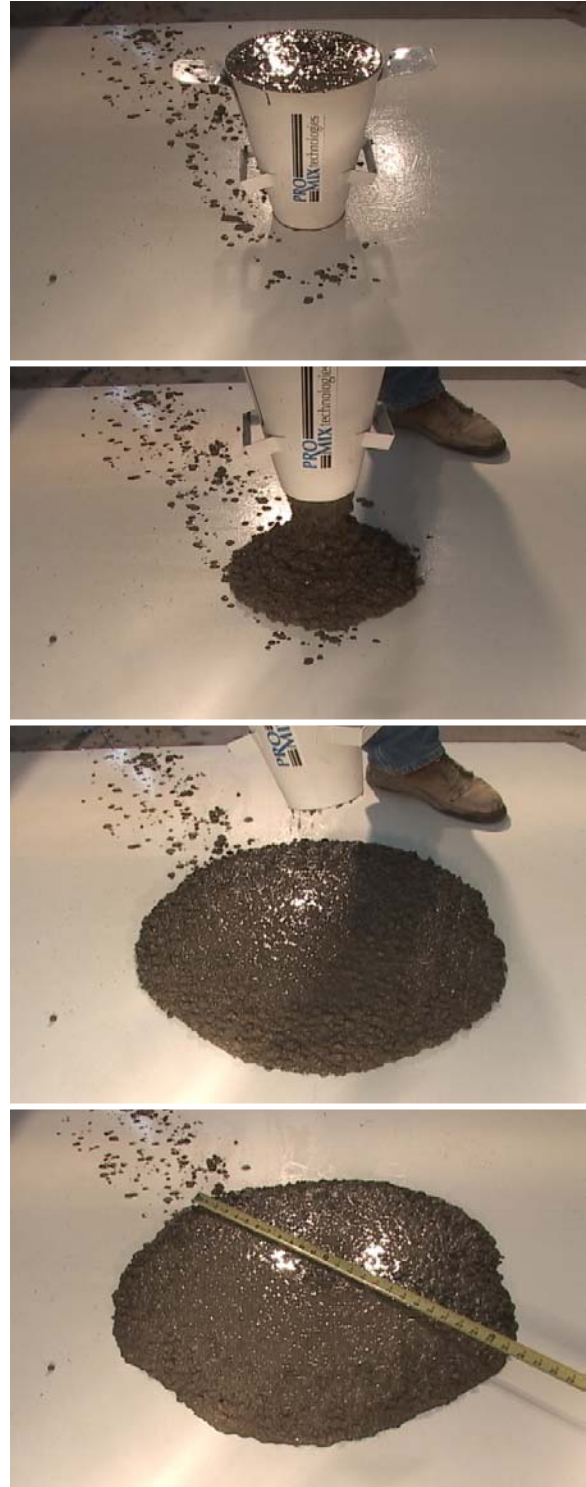
**ProPel HRHE** is compatible with all types of Portland cement, class C and F fly ash, slag (GGBFS), microsilica (silica fume), fibers and approved air entraining admixtures. **ProPel HRHE** can be used in all white, colored, and architectural concrete. For best results, each admixture must be dispensed separately into the concrete mix.

### **STORAGE:**

**ProPel HRHE** may freeze at temperatures below 35 F (2 C). Although freezing does not harm **ProPel HRHE**, precautions should be taken to protect it from freezing. If it should happen to freeze, thaw and reconstitute with mechanical agitation. **Do Not Use Pressurized Air For Agitation.**

### **PACKAGING:**

55 gallon drums, 275 gallon totes and bulk



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