

# Polychem HE

## Water Reducing-Accelerating Admixture

**Polychem HE** is a combination accelerating and water-reducing admixture for concrete. **Polychem HE** is designed to accelerate the set and increase strengths at all ages.

**Polychem HE** contains chloride and is specifically formulated to promote earlier finishing. It improves the plastic and hardened properties of concrete.

### APPLICABLE STANDARDS

**Polychem HE** will meet or exceed the requirements of ASTM C 494, Type E, CRD C 87, and AASHTO M 194.

### ADVANTAGES

#### In Plastic Concrete

- Significant labor savings
- Accelerates setting times
- Earlier finishing of slabs
- Superior workability
- Reduced heating costs
- Reduced segregation

#### In Hardened Concrete

- Superior finished appearance
- Increased resistance to freeze-thaw conditions
- Early stripping and re-use of forms
- Reduction in cracking

### COMPATIBILITY

**Polychem HE** is compatible and effective with all types of portland cement, standard air-entraining agents, fly ash, microsilica, fibers, calcium chloride and stearates.

### DOSAGE RATES

8 to 32 oz. per 100# of cementitious material, dependent upon acceleration needed or required and the ambient temperature as well as concrete temperatures involved.

### TYPICAL COMPRESSIVE STRENGTHS

517 lbs. cement - 3/4" slump			
Polychem HE @ 16oz/100# cement			
	Control	Polychem HE	
3 day	2690	3310	
7 day	4310	4490	
28 day	5250	5310	

### TYPICAL SETTING TIMES

(ASTM C 403 Initial Set)			
Polychem HE			
Control	16oz/100#	32oz/100#	
7:30	5:10	4:05	

### SUGGESTED SPECIFICATION

All concrete shall contain **Polychem HE**, ASTM C 494, Type E accelerator, manufactured by General Resource Technology. Dosage rate shall be 8 to 32 oz. per 100# cementitious material, unless otherwise recommended by the manufacturer.

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### PACKAGING

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**Polychem HE** is available in 55 gallon drums or in bulk. General Resource Technology will supply, install and maintain appropriate dispenser systems for bulk admixture users.

### WARRANTY

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General Resource Technology warrants **Polychem HE** to be free from defects in materials and manufacture. General Resource Technology is not responsible for conditions outside it's control; including other materials, workmanship, design, inspection, supervision, labor, ambient temperature and field conditions, which are the proper responsibility of others.

### HANDLING

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**Polychem HE** and it's components are environmentally safe, however care should be exercised when handling or coming in contact with all chemical admixtures. Protective glasses or goggles are recommended. MSDS available.