

# Polychem Super Set III

## Non-Chloride Accelerating Admixture

**Polychem Super Set III** is a non-chloride, water reducing admixture formulated to accelerate the strength development and setting time of concrete in cold weather.

**Polychem Super Set III** can reduce labor costs associated with the finishing process.

**Polychem Super Set III** is non-corrosive and therefore, will not aid in the corrosion of reinforcing steel embedded within the concrete. It is recommended for use in all types of concrete, especially reinforced and prestressed.

### APPLICABLE STANDARDS

**Polychem Super Set III** meets or exceeds the requirements of ASTM C 494, Type C and E, CRD C 87, and AASHTO M 194.

### ADVANTAGES

#### Plastic Concrete

- Accelerates setting times
- Earlier finishing of slabs (flatwork)
- Superior workability
- Superior finishing characteristics for cast surfaces and flatwork
- Reduced heating costs and protection time in cold weather
- Reduced segregation and bleeding

#### Hardened Concrete

- Increased early-age strengths
- Superior finished appearance
- Increased resistance to freeze-thaw conditions
- Early stripping and reuse of formwork

### DOSAGE RATES

**Polychem Super Set III's** normal recommended dosage rates are 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

520 lbs. Cement - 3/4" slump  
 Polychem Super Set III 16 oz. per  
 100# cement

	Control	Super Set
<b>3 day</b>	3280	4320
<b>7 day</b>	4300	5040
<b>28 day</b>	6530	7320

### TYPICAL SETTING TIMES

(ASTM C 403 Initial Set)  
 Polychem Super Set III

	Initial	Final
<b>Control</b>	4:45	7:00
<b>16 oz.</b>	3:36	5:42

# Polychem Super Set III

## Accelerating Admixture

### COMPATIBILITY

**Polychem Super Set III** is compatible and effective with all types of Portland cement, standard air-entraining agents, fly ash, microsilica, fibers, calcium chloride and stearates. **Polychem Super Set III** does not entrain air or contain calcium chloride.

### PACKAGING

**Polychem Super Set III** is available in bulk or 55 gallon drums. General Resource Technology will install, service and maintain dispenser systems for bulk admixture purchasers.

### HANDLING

**Polychem Super Set III** and its components are user-friendly, however, care should be exercised when handling or coming in contact with all chemical admixtures. Protective glasses or goggles are recommended. MSDS available.

**Polychem Super Set III** should be protected against freezing. In the event that freezing does occur, thaw and mildly agitate to restore original consistency.

Air pressure is not recommended.

### SUGGESTED SPECIFICATION

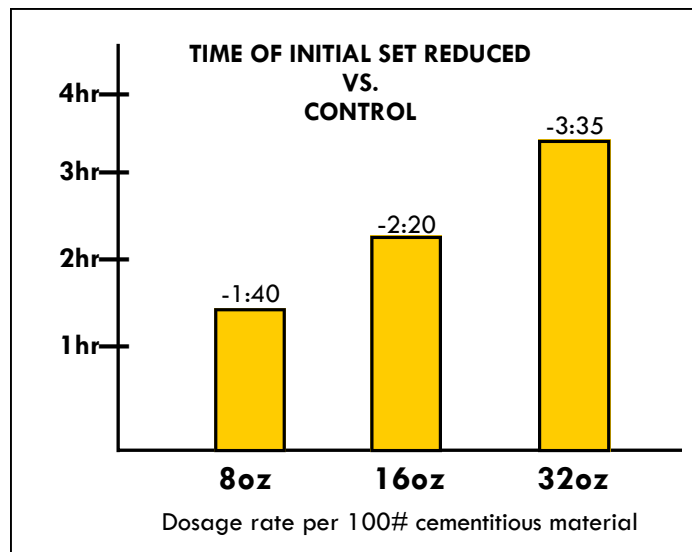
All concrete shall contain **Polychem Super Set III** ASTM C 494, Type C and E accelerator, manufactured by General Resource Technology. Dosage rate shall be 8 to 32 oz. per 100# of cementitious material, unless otherwise recommended by the manufacturer.

### WARRANTY

General Resource Technology warrants **Polychem Super Set III** 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.

### POLYCHEM SUPER SET

Performance @ 35-40° AMBIENT TEMPERATURE



Cement Type I/II 517#/yd Concrete Temperature @ 60°  
Dosage rates are per 100# of total cementitious material.

The information contained herein is intended as a guide only. Cementitious materials will vary in setting characteristics as well as interaction with admixtures.