



PC 1000 is designed to improve the finishing characteristics of all concrete, especially lean concrete mixtures, while providing increased compressive and flexural strength.

PC 1000 is extremely effective in performance concrete mixtures or those which contain fly ash, slag or pozzolans.

PC 1000 is a normal setting/highly concentrated multi-component liquid admixture conforming to ASTM C494 Type A.

PC 1000 may be used at higher recommended dosages without extended retardation.

PC 1000 Contains No Chloride and is recommended for use in all concrete, including prestressed or other metallic impregnated concrete

Polychem 1000

Finishing Aid/Water Reducer

APPLICABLE STANDARDS

General Resource Technology's **Polychem 1000** meets and will exceed the requirements of ASTM C 494, Type A and AASHTO M 194. Independent laboratory tests are available upon request.

ADVANTAGES

Plastic Concrete

- Enhanced workability and finishing
- Reduced mix water requirement needed to produce a given slump or consistency (reduced water/cementitious ratio)
- Reduced bleed water while increasing trowelability
- Will not retard the rate of set when used at recommended dosage rates
- Increased homogeneity and reduced consolidation time
- Increased slip-form placement performance
- Increased pumpability

Hardened Concrete

- Increased compressive and flexural strengths
- Increased early age strength development
- Reduced shrinkage cracking

- Reduced permeability and increased water-tightness
- Increased freeze-thaw resistance
- Superior surface appearance

DOSAGE RATES

3 to 6oz. per 100 lbs. (89-177 ml/45kg) cementitious material.

Specific applications of up to 12 oz. per 100 lbs cementitious material (355 ml) may be possible. Contact your GRT/POLYCHEM representative for assistance.

TECHNICAL SERVICE

General Resource Technology has trained representatives as well as technical consultants available to all specifiers and users to assist with field use and promotion, specifications, and dispenser services. General Resource Technology highly recommends that these services be utilized to ensure maximum performance and benefit while using **PC 1000**.

AVAILABILITY

PC 1000 is available in bulk or 55 gallon drums.

General Resource Technology will install, service and maintain dispenser systems for bulk admixture purchasers.

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HANDLING

PC 1000 is a polymeric blend of raw materials which have been found to be user friendly. Care should be exercised and goggles or protective eyewear are recommended. MSDS are available.

COMPATIBILITY

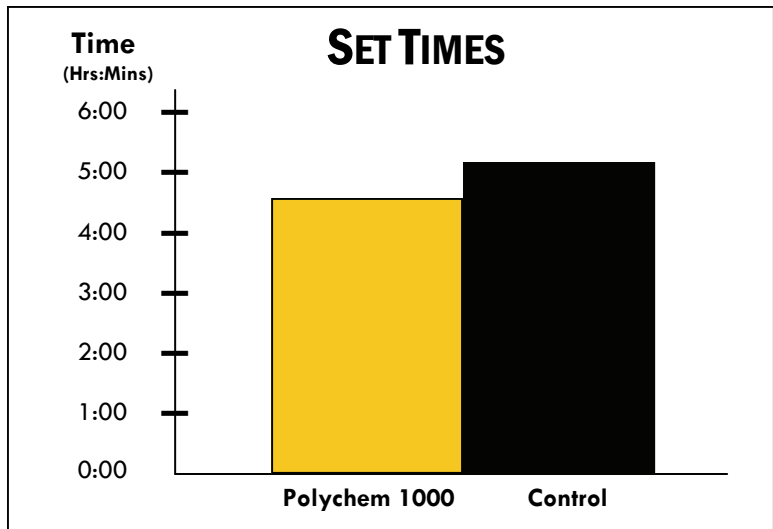
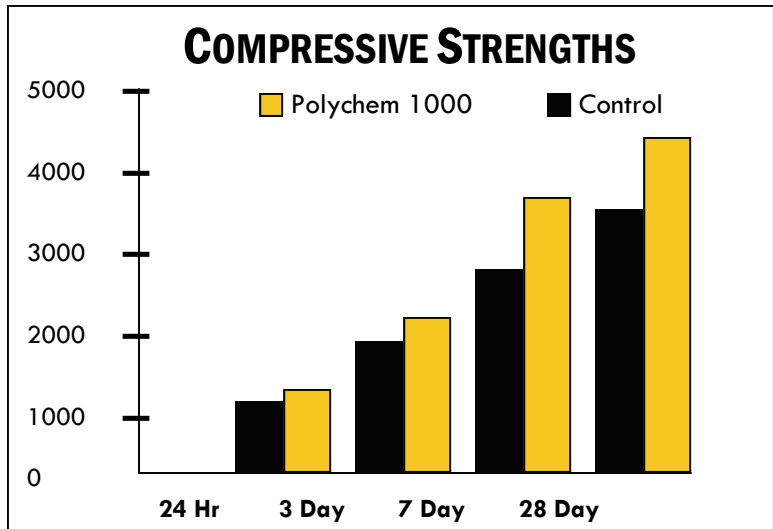
PC 1000 is compatible with approved air-entrainment admixtures, calcium chloride, stearates, and similar chemical derivatives. **PC 1000** is compatible with all types of cement. **PC 1000** will not entrain air significantly.

SPECIFICATION SUGGESTIONS

All concrete shall contain **PC 1000**, ASTM C494 Type A normal setting water reducer, produced by General Resource Technology, Eagan, MN. Suggested dosage rate shall be 3 to 6oz. per 100 wt. of cementitious material unless recommended otherwise by General Resource Technology Technical Services.

WARRANTY

General Resource Technology warrants **PC 1000** 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.



| Cement (Type I) 370lb/yd ³ Fly Ash (Class C) 100lb/yd ³ Slump: 5 inches Air Content: 6.0% | Initial Set Time (ASTM C403 @ 73°F) | Compressive Strengths (Average 3 Cylinders) | | | |
|--|-------------------------------------|---|-------|-------|--------|
| | | 24 Hr | 3 Day | 7 Day | 28 Day |
| Control without PC 1000 | 5:35 | 1180 | 2030 | 3105 | 3830 |
| Performance Plus Concrete PC 1000 @ 3 oz/100 wt (Total Cementitious) | 4:55 | 1410 | 2610 | 3890 | 4620 |