

Polychem 3000 is a normal setting, multi-range, water reducing admixture for concrete utilizing polycarboxylate technology.

Polychem 3000 is designed to facilitate the placing and finishing of ready mixed concrete that is highly flow-able and workable for extended periods of time with normal setting characteristics.

ADVANTAGES

- By varying the dosage rate **Polychem 3000** can be used as a normal, mid-range and high-range water reducing admixture
- Improves the quality of concrete by decreasing water-cementitious ratio
- Increases high early and ultimate strengths, both compressive and flexural
- High durability and increased density
- Reduces damage caused by freezing and thawing
- Reduces water content needed for a given workability (12-40%)
- Reduces surface bleeding
- Reduces cracking, creep and shrinkage
- Reduces segregation and increases cohesiveness
- Improves finishability and workability of concrete
- Improves pumpability of concrete
- Maintains slump life during extended mixing times
- Plasticity range of 8"-11"
- Improves bond strength to the steel
- Reduces permeability and salt penetration
- Higher productivity and reduced labor

DOSAGE RATES

Polychem 3000 is recommended for use at a dose of 1-20 fl. oz. per 100# (65 to 1305ml per 100kg) of cementitious material to meet the requirements of ASTM C 494 Type A water-reducing and Type F high-range water-reducing admixture.

Polychem 3000 has a range of up to 3 fl. oz. per 100# (196ml per 100kg) to meet ASTM C-494 Type A applications.

Polychem 3000 has a recommended dosage range of 3 to 6 oz. per 100# (196 to 391ml per 100kg) for use in mid-range applications.

Polychem 3000 has a recommended dosage range of 7 to 20 fluid ounces per 100 pounds (457 to 1305 mL per 100 kg) to meet ASTM C-494 Type F applications.

Because local job conditions and materials vary, contact your local GRT technical service representative for further assistance when using this product.

Polychem 3000

Multi-Range Water-Reducing Admixture

SPECIFICATIONS

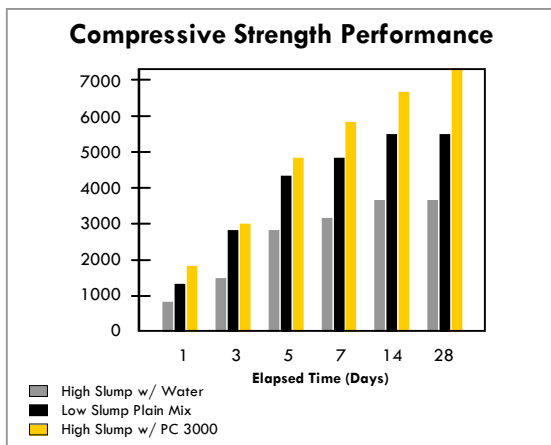
Conforms to:
ASTM C-494 Types A and F
AASHTO M-194 Types A and F
CRD C-87 Types A and F
All other Federal and State specifications.

COMPATIBILITY

Polychem 3000 is compatible with all types Portland cement, Class C and F fly ash, silica fume, fiber, approved air entraining, and water reducing admixtures. **Polychem 3000** can be used in white, colored, and architectural concrete. For best results, each admixture must be introduced separately into the concrete mix.

MIX PERFORMANCE DATA

517lbs. (307kg) of Type 1 cement per cubic yard (cubic meter)
Air content: 5.0%
Slump Plain: 1.0 inches (25.4mm)
Slump after water: 7.5 inches (191mm)
Slump after (8oz/cwt)
Polychem 3000: 7.0 inches (178mm)



TECHNICAL NOTE

Polychem 3000 does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion or reinforcing steel in concrete.

Polychem 3000 conforms to the minimum chloride ion limits published by current construction industry standards.

DIRECTIONS

Polychem 3000 should be added with the initial mixing water or incorporated with the final water at the end of the batch sequence. It is not unusual to experience significantly lower air entrainment dosage requirements (50-75%) when compared to conventional high-range water reducers.

STORAGE

Polychem 3000 may freeze at temperatures below 35°F (2°C). Although freezing does not harm **Polychem 3000**, precautions should be taken to protect it from freezing. If it should freeze, thaw at 45°F and reconstitute with mechanical agitation. **Do Not Use Pressurized Air For Agitation.**

PACKAGING

55 gallon drums, 275 gallon totes and bulk delivery.

SHELF LIFE

18 months