



# PLASTOL™ 5000

## HIGH RANGE WATER REDUCER - SUPERPLASTICIZER

EUCLID CHEMICAL

### PRODUCT INFORMATION

#### PACKAGING

Packaged in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums, and 5 gal (18.9 L) pails.

#### SHELF LIFE

1 year in original, unopened container

#### SPECIFICATIONS/COMPLIANCES

ASTM C494, Type A & F

ASTM C1017 Type I

### DESCRIPTION

PLASTOL 5000 is a high range water reducing, polycarboxylate based admixture for concrete. PLASTOL 5000 increases concrete strength at all ages, can be used to produce increased slump and can significantly reduce the water demand of concrete mixtures. PLASTOL 5000 can be added at the plant or job site and is compatible with other admixtures. PLASTOL 5000 contains no added chlorides or chemicals known to promote the corrosion of steel.

### PRODUCT CHARACTERISTICS

#### FEATURES & BENEFITS

- Improves workability / finishability
- Greatly reduces water requirement
- Reduces segregation, bleeding, cracking and permeability
- Greatly increases strength and improves finished appearance
- Greatly increases durability

#### PRIMARY APPLICATIONS

- High performance concrete
- Self Compacting Concrete / Self Consolidating Concrete
- Precast / prestressed concrete
- Low water/cement ratio concrete
- High early strength applications

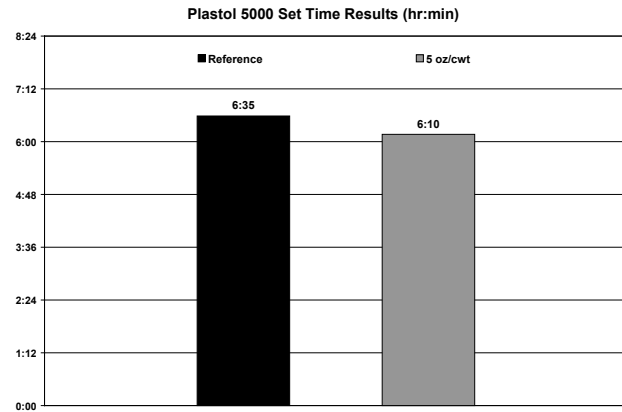
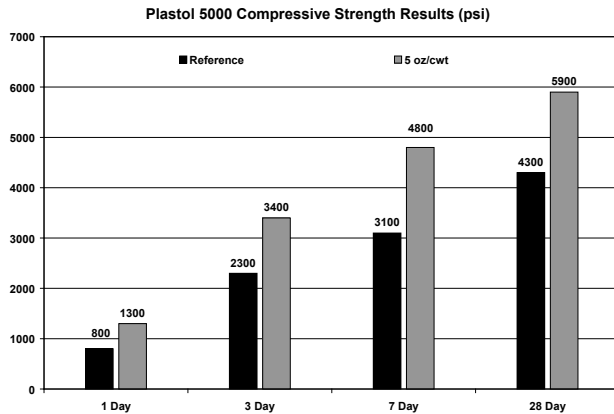
### PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain PLASTOL 5000 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Do not agitate with air or an air lance.
- Add to mix independent of other admixtures.
- In all cases, consult the Safety Data Sheet before use.

## TECHNICAL INFORMATION

### PERFORMANCE DATA

The following test results were achieved using typical ASTM C494 mix design requirements, 517 lb/yd<sup>3</sup> (307 kg/m<sup>3</sup>) cement content and similar ( $\pm 0.5$ )% air content. These results were obtained under laboratory conditions with materials and mix designs meeting the specifications of ASTM C494. Changes in materials and mix designs can affect the dosage response.



## DIRECTIONS FOR USE

PLASTOL 5000 has a recommended dosage range of 3-15 oz/100 lbs (200-980 mL/100 kg) of cementitious material. Dosage recommendations depend on characteristics of the materials being used in the mix design. Higher dosages are acceptable with testing and confirmation of the desired performance with specific materials used.

For any concrete application including Self Consolidating Concrete (SCC), the dosage of PLASTOL 5000 will vary depending on the mix design, local materials, and individual needs of the concrete producer. Trial mixes should be done to verify plastic and hardened performance with local materials. If the material gradations are not optimum for SCC, a viscosity modifier may be used to improve the quality of the mix. Please consult a local Euclid Chemical Sales Professional regarding trial mixtures and dosage recommendations.

PLASTOL 5000 can be added to the initial batch water or directly on the freshly batched concrete and mixed for approximately 5 minutes or 70 revolutions. However, better results have been observed dispensing directly on the freshly batched concrete.

It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch. PLASTOL 5000 is compatible with other Euclid Chemical admixtures including air-entraining agents, accelerators, most water reducers, retarders, shrinkage reducers, corrosion inhibitors, viscosity modifiers, and microsilica; however, each material should be added to the concrete separately.

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