HIGH RANGE WATER REDUCERS / SUPERPLASTICIZERS

Master Format #: 03 30 00 03 40 00 03 70 00

PLASTOL™ SPC

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

AASHTO M194

DESCRIPTION

PLASTOL SPC is a polycarboxylate based high range water reducing admixture which enables concrete to be produced with very low water to cement ratios. PLASTOL SPC produces flowable and self consolidating concrete at low doses and can obtain up to 45% water reduction. PLASTOL SPC contains no added chlorides or chemicals known to promote the corrosion of steel and is compatible with most admixtures however, each chemical should be added separately to the mix.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Allows for cement reduction
- Improved air content stability
- Improves workability / finishability
- Reduces water requirement for better strength
- Greatly improves durability and finished appearance
- Reduces segregation, bleeding, cracking and permeability
- Produces very high early strengths with Type I and Type III cement

PRIMARY APPLICATIONS

- Ready mix concrete
- Heavily reinforced concrete
- High performance concrete
- Flatwork and mass concrete
- High early strength concrete
- Precast / prestressed concrete
- Self Consolidating Concrete (SCC)
- Very flowable, high slump concrete

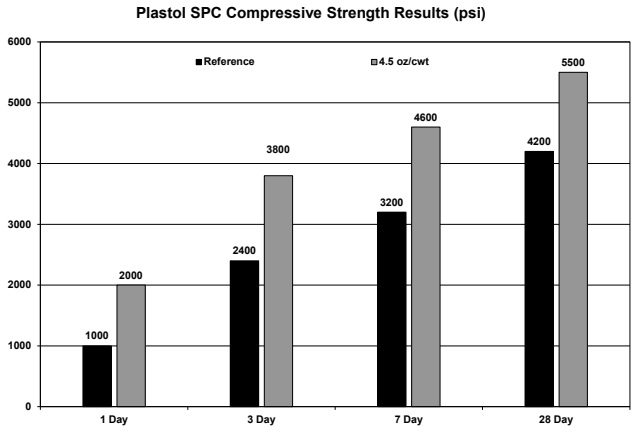
PRECAUTIONS/LIMITATIONS

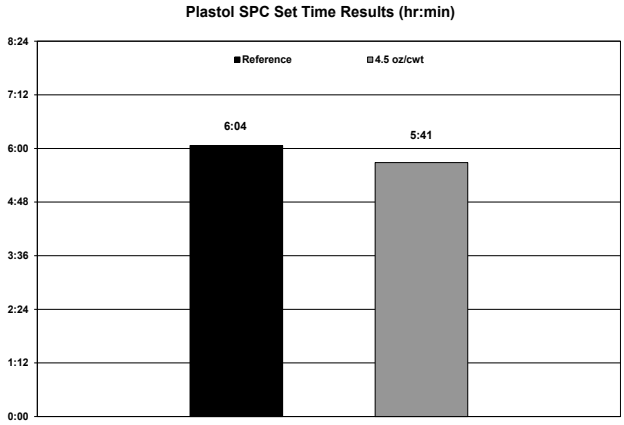
- Care should be taken to maintain PLASTOL SPC above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Do not agitate with air or an air lance.
- If re-dosing PLASTOL SPC at the job site, it is recommended that the air content of the concrete mix is checked to conform to job specifications.
- 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^3 (307 kg/m^3) cement content and similar (± 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 SPC has a recommended dosage range of 3 - 12 oz/100 lbs (200 - 780 mL/100 kg) of cementitious material. Dosage recommendations depend on the characteristics of the materials being used in the mix design. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used. PLASTOL SPC can be added to the initial batch water or directly on the freshly batched concrete and mixed for 5 minutes or 70 revolutions. However, better results have been observed batching 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.

For any concrete application including Self Consolidating Concrete (SCC), the dosage of PLASTOL SPC will vary depending on the mix design, local materials, and individual needs of the concrete producer. Trial mixes should be run 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 for trial mixtures and dosage recommendations.

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