



PLASTOL 5700

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

PLASTOL 5700 is a ready to use high range water reducing admixture for concrete specifically engineered to provide maximum water reduction, slump flow, and high strengths in precast concrete applications. PLASTOL 5700 is capable of reducing water demand by up to 40%. Use in high performance concrete applications or self-consolidating concrete. PLASTOL 5700 does not contain any added chlorides or chemicals known to promote corrosion of steel.

PRIMARY APPLICATIONS

- High performance concrete
- Self-consolidating concrete
- Precast/prestressed concrete
- Low water/cement ratio concrete
- High early strength applications

FEATURES/BENEFITS

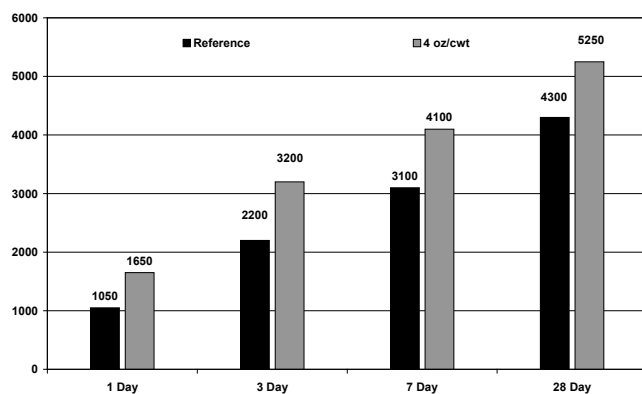
- Improved appearance with SCC mixes
- Higher strengths at all ages
- Maximized efficiency for slump or flow increase
- Reduced discharge time in forms
- Enables cement reduction
- Efficient use of labor, materials and equipment

TECHNICAL INFORMATION

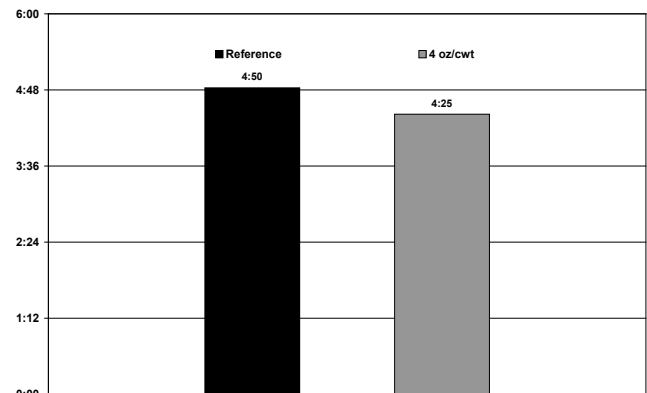
Performance Data:

The following test results were achieved using typical ASTM C 494 mix design requirements, 517 lb/yd³ (307 kg/m³) 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 C 494. Changes in materials and mix designs can affect the dosage response of PLASTOL 5700.

Plastol 5700 Compressive Strength Results (psi)



Plastol 5700 Set Time Results (hr:min)



PACKAGING

PLASTOL 5700 is 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

- Fully complies with the requirements of:
- ASTM C 494, Types A & F admixture
- AASHTO M 194 Types A & F admixture.
- ASTM C1017

DIRECTIONS FOR USE

PLASTOL 5700 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 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.

PLASTOL 5700 is typically used at dosages of 2 to 10 oz per 100 lbs (130 to 650 mL per 100 kg) of cementitious material. Other dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

For any concrete application including Self-Consolidating Concrete (SCC), the dosage of PLASTOL 5700 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.

PLASTOL 5700 is compatible with most 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.

PRECAUTIONS / LIMITATIONS

- Care should be taken to maintain Plastol 5700 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Never agitate with air or an air lance.
- Keep concrete from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- If re-dosing Plastol 5700 at the jobsite, it is recommended that the air content is checked to conform to job specifications.
- In all cases, consult the Safety Data Sheet before use.

Rev. 11.14

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