



PLASTOL™ 6400

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

AASHTO M194

ANSI / NSF STD 61

DESCRIPTION

Plastol 6400 is a polycarboxylate based high range water reducing admixture which enables concrete to be produced with very low water to cement ratios. Plastol 6400 produces flowable and self consolidating concrete at low doses and can obtain up to high levels of water reduction while maintaining excellent workability. PLASTOL 6400 maintains the benefits of polycarboxylate technology for high compressive strengths, flexural strength, and excellent setting characteristics. PLASTOL 6400 can be used with supplementary cementitious materials and contains no added chlorides or chemicals known to promote the corrosion of steel. It's also compatible with most admixtures however, each material should be added separately.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Greatly reduces water requirement for better strength
- Allows for cement reduction
- Improved air content stability
- Improves workability retention without significantly delaying the set time of the concrete
- Reduces or eliminates jobsite addition of HRWR
- Greatly improves durability and finished appearance
- Reduces segregation, bleeding, cracking and permeability
- Produces flowing concrete with quicker stripping strengths
- Use with Type I and Type III cements will produce high early strengths

PRIMARY APPLICATIONS

- Heavily reinforced concrete
- Ready mix concrete
- High performance concrete
- Flatwork and mass concrete
- Precast / prestressed concrete
- Low water / cement ratio concrete
- Very flowable, high slump concrete
- Self Consolidating Concrete (SCC), Self Leveling Concrete (SLC)

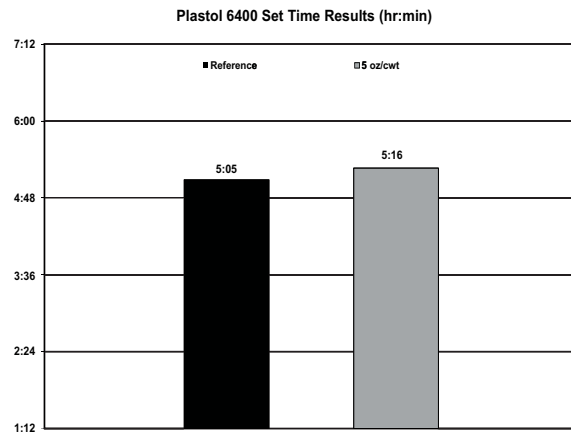
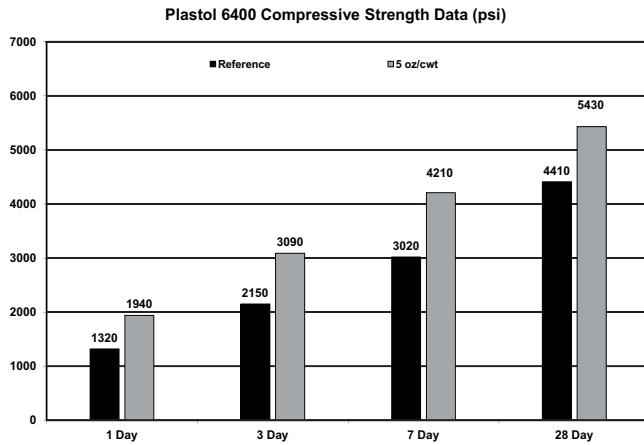
PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain PLASTOL 6400 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/yd³ (307 kg/m³) 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 6400 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 6400 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.

For any concrete application including Self Consolidating Concrete (SCC), the dosage of PLASTOL 6400 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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