



# PLASTOL 6400

## HIGH RANGE WATER REDUCER - SUPERPLASTICIZER

### 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 45% water reduction. Plastol 6400 does not contain added chlorides and will not promote corrosion in steel. Plastol 6400 is compatible with air-entraining agents, microsilica, accelerators and many other admixtures; however, each material should be added to the concrete separately.

### PRIMARY APPLICATIONS

- High performance concrete
- Negative slump concrete
- Heavily reinforced concrete
- Flatwork and mass concrete
- High early strength concrete
- Precast/prestressed concrete
- High slump, flowable concrete

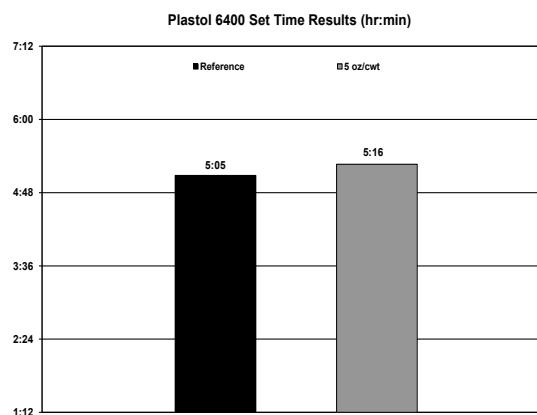
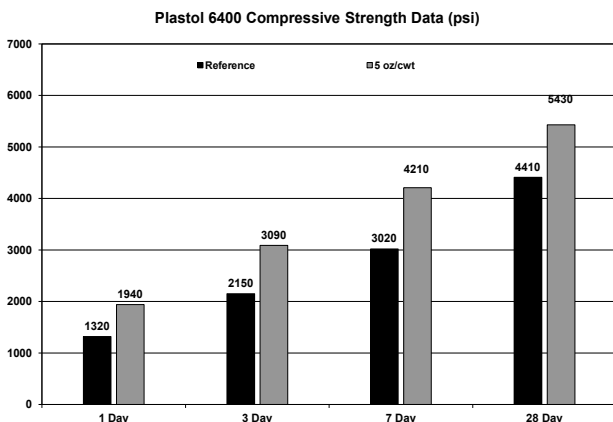
### FEATURES/BENEFITS

- Produces low water content and low water/cement ratio concrete allowing higher strengths
- Produces flowing concrete with quicker stripping strengths
- Aids in concrete placement and reduces labor cost
- When used in precast work with Type I and Type III cements, Plastol 6400 will produce very high early strengths
- Improved air stability characteristics

### TECHNICAL INFORMATION

#### Performance Data:

The following test results were achieved using typical ASTM C 494 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 C 494. Changes in materials and mix designs can affect the dosage response of PLASTOL 6400.



## PACKAGING

Plastol 6400 is packaged in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails.

## SHELF LIFE

6 months in original, unopened container.

## SPECIFICATIONS/COMPLIANCES

- Fully complies with the requirements of ASTM C 494, Types A & F admixtures.
- Complies with the requirements of AASHTO M 194.

## DIRECTIONS FOR USE

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.

PLASTOL 6400 is typically used at dosages of 3 to 12 oz per 100 lbs (200 to 780 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 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.

PLASTOL 6400 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 6400 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 6400 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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