



PLASTOL™ 6420

MID/HIGH RANGE - WATER REDUCING ADMIXTURE

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

ANSI / NSF STD 61

ASTM C494, Type A & F

AASHTO M194

ASTM C1017, Type I

DESCRIPTION

PLASTOL 6420 is a mid/high range water reducing and plasticizing polycarboxylate admixture with improved workability retention. Plastol 6420 shows improved finishing characteristics when compared to other commonly used Type A (typically 5-6% water reduction) or Type F (typically 12-15% water reduction) admixtures. This mid range approach to water reducing admixtures allows for a wide range of usable dosage rates for a broad application spectrum. PLASTOL 6420 contains no added chlorides or chemicals known to promote the corrosion of steel.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Improves workability retention without significantly delaying the set time of the concrete
- Reduces water requirement
- Superior workability retention
- Increases strength at all ages
- Reduces permeability
- Improves finished appearance
- Increases durability
- Neutral effects on setting time

PRIMARY APPLICATIONS

- Ready mix concrete
- Precast concrete
- Cast in place
- Self-consolidating concrete
- Concrete containing fly ash and other pozzolans

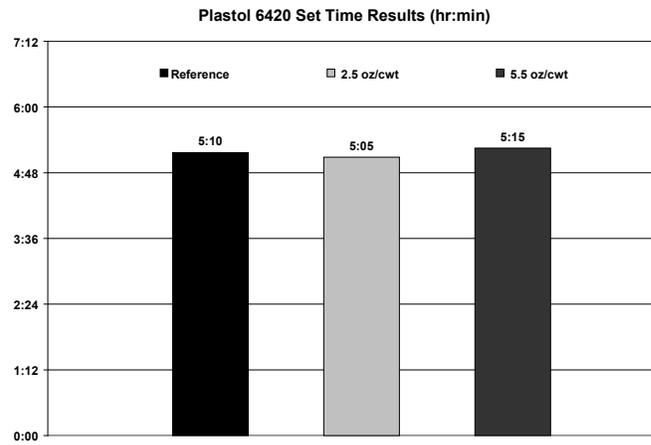
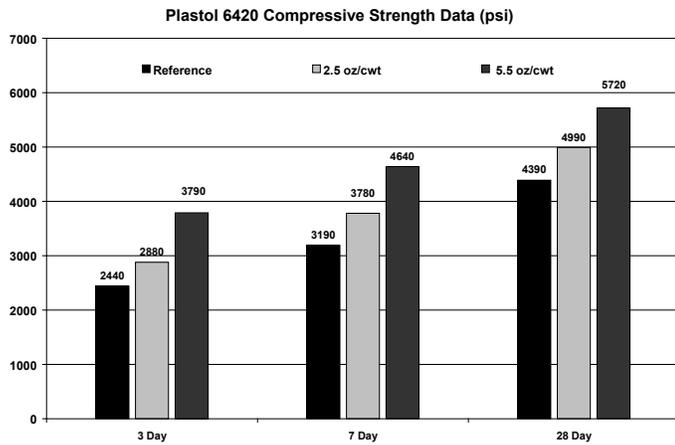
PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain PLASTOL 6420 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 ($\pm 0.5\%$) 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 6420 has a recommended dosage range of 1-14 oz/100lbs (65-910 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.

Dosages of PLASTOL 6420 to make SCC will vary depending on mixture design. Trial mixtures should be done to verify plastic and hardened performance with local materials.

PLASTOL 6420 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.

PLASTOL 6420 should not come in contact with dry cement or other admixtures until they are mixed with the concrete batch. Field testing is strongly recommended to optimize dosage range and performance expectations with local materials. PLASTOL 6420 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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