PLASTOL 6420
Mid/High Range - Water Reducing Admixture

DESCRIPTION

PLASTOL 6420 is a mid/high range water reducing and plasticizing polycarboxylate based admixture for concrete. 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.

PRIMARY APPLICATIONS

- Ready mix concrete
- Precast concrete
- Cast in place
- Self-consolidating concrete (SCC)
- Concrete mixtures utilizing Fly Ash, Slag or other natural pozzolans

FEATURES/BENEFITS

Plastic Concrete
- Improves finishability
- Improves workability
- Reduces water requirement
- Improves setting times
- Superior slump retention
- Improved air consistency

Hardened Concrete
- Increases early and late age strengths
- Reduces permeability
- Increases durability

TECHNICAL INFORMATION

The following test results were achieved using typical ASTM C 494 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 C 494. Changes in materials and mix designs can affect the dosage response of PLASTOL 6420.

Plastol 6420 Compressive Strength Data (psi)

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<th>4390</th>
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Plastol 6420 Set Time Results (hr:min)

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<td>5:05</td>
<td>5:05</td>
<td>5:15</td>
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<tr>
<td>5.5 oz/cwt</td>
<td>5:10</td>
<td>5:05</td>
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Reference
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**Packaging**
PLASTOL 6420 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**
PLASTOL 6420 meets or exceeds the requirements of:
- ASTM C 494, Type A and Type F
- ASTM C 1017 as a Type I admixture
- AASHTO M 194
- ANSI/NSF STD 61 registered

**Directions for Use**
PLASTOL 6420 has a recommended dosage range of 2 to 10 oz per 100 lbs (130 to 650 mL per 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 run 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.

**Precautions/Limitations**
- Care should be taken to maintain PLASTOL 6420 above freezing.
- Never agitate with air.
- Add to concrete mix independent of other admixtures.
- In all cases, consult the Safety Data Sheet before use.

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