PLASTOL AMP-X³

Extended Workability Admixture

EUCLID CHEMICAL

Description

Plastol AMP-X³ extended workability admixture is formulated using advanced time-release polycarboxylate technology and has been engineered for use in various concrete applications to provide extended workability of conventional, high slump, or Self-Consolidating Concrete with minimal retardation. Plastol AMP-X³ workability enhancing admixture works in partnership with a normal, mid-range, or high-range water reducer, to aid in maintaining a consistent slump or flow over a significantly increased time period. The addition of Plastol AMP-X³ minimizes the need for jobsite slump adjustments or re-tempering while maintaining consistent air contents from batching to placing of concrete. Plastol AMP-X³ enables the concrete producer to have the flexibility to make adjustments for variations in regional raw materials, specific application requirements, and environmental conditions. Plastol AMP-X³ does not contain added chlorides or chemicals known to promote the corrosion of steel.

Primary Applications

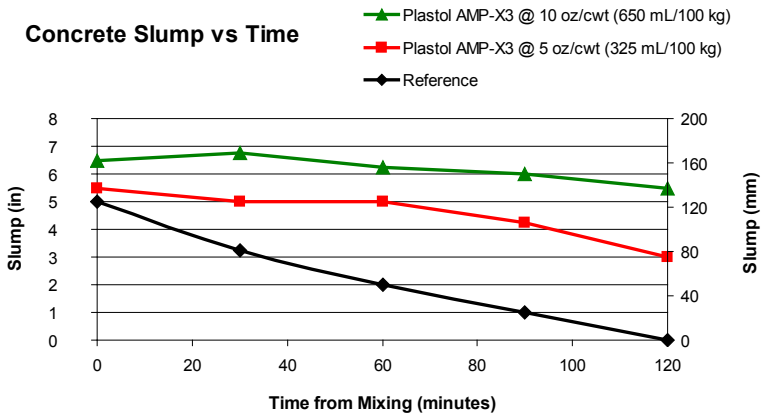
- Ready-Mix Concrete
- Precast/Pre-Stressed Concrete
- High Slump Concrete
- Self-Consolidating Concrete (SCC)
- Mining and Tunneling Concrete
- Flatwork and Mass Concrete

Features/Benefits

- Provides extended slump retention without retardation
- Consistent control of air content
- Higher early and ultimate strengths
- Reduces or eliminates job-site addition of HRWR
- Lowers number of rejected concrete loads
- Aids in concrete placement and reduces labor cost

Technical Information

The following test results were achieved using a typical slab on ground mix design with 600 lbs/yd³ (360 kg/m³) of Type I cement and a water to cementitious materials ratio of 0.5. These results were obtained under laboratory conditions with materials meeting the specifications of ASTM C494. Changes in materials and mix designs can affect the dosage response of Plastol AMP-X³.



Reference Mix utilized a Type A Water Reducer Dosage of 4 oz/cwt (260 mL/100 kg cement)

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Packaging

Plastol AMP-X^3 is available in bulk, 275 gal (1041L) totes, 55 gal (208 L) drums, and 5 gal (18.9 L) pails.

Shelf Life

1 year in original, unopened container.

Specifications/Compliances

Plastol AMP-X^3 has been formulated to meet ASTM C494/C494M Type S Standards.

Directions for Use

Plastol AMP-X^3 can be added to the initial batch water or directly on the freshly batched concrete and mixed for approximately 5 minutes or 70 revolutions at full mixing speed. 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 AMP-X^3 is typically used at dosages of 2 to 12 oz per 100 lbs (130 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 AMP-X^3 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.

Plastol AMP-X^3 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. It is NOT recommended that Plastol AMP-X^3 be used with Eucon 37,Eucon 1037, Eucon SP, Plastol 100, or any other naphthalene or melamine-based admixtures.

Please contact a Euclid Chemical Sales Professional for any additional questions.

Precautions / Limitations

- Care should be taken to maintain Plastol AMP-X^3 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.
- In all cases, consult the Safety Data Sheet before use.