



# PLASTOL™ AMP-X<sup>2</sup>

TIME RELEASE POLYCARBOXYLATE - WORKABILITY ENHANCING ADMIXTURE

EUCLID CHEMICAL

## PRODUCT INFORMATION

### PACKAGING

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

### SPECIFICATION/COMPLIANCES

ASTM C494, Type S  
MTQ

## DESCRIPTION

PLASTOL AMP-X<sup>2</sup> workability enhancing 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-X<sup>2</sup> works in partnership with a normal, mid range or high range water reducer, to aid in maintaining a consistent slump / flow over a significantly increased time period. The addition of PLASTOL AMP-X<sup>2</sup> minimizes the need for job site slump adjustments or re-tempering while maintaining consistent air contents from batching to placing of concrete. PLASTOL AMP-X<sup>2</sup> 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-X<sup>2</sup> contains no added chlorides or chemicals known to promote the corrosion of steel.

## PRODUCT CHARACTERISTICS

### FEATURES & BENEFITS

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

### PRIMARY APPLICATIONS

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

## PRECAUTIONS/LIMITATIONS

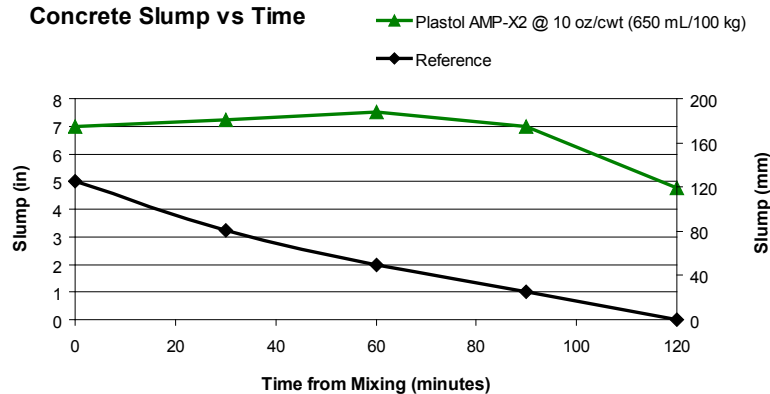
- Care should be taken to maintain PLASTOL AMP-X<sup>2</sup> above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Do not agitate with air or an air lance.
- Add to mix independent of other admixtures.
- Keep concrete from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- In all cases, consult the Safety Data Sheet before use.

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## TECHNICAL INFORMATION

### PERFORMANCE DATA

The following test results were achieved using a typical slab on ground mix design with 600 lbs/yd<sup>3</sup> (360 kg/m<sup>3</sup>) 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.



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

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## DIRECTIONS FOR USE

PLASTOL AMP-X<sup>2</sup> 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<sup>2</sup> is typically used at dosages of 2 - 12 oz/100 lbs (130 - 780 mL/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<sup>2</sup> 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<sup>2</sup> 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<sup>2</sup> be used with EUCON 37, EUCON 1037 or any other naphthalene or melamine based admixtures.

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

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