



# THE EUCLID CHEMICAL COMPANY

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# EUCON A+

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**TYPE A - WATER REDUCING ADMIXTURE**

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**EUCON A+** is a fast-setting, water-reducing and plasticizing admixture for concrete. EUCON A+ shows improved setting and finishing characteristics when compared to other commonly used type A water reducing admixtures. EUCON A+ is used at a dosage rate of 3-8 ounces per hundred pounds of cement. EUCON A+ as produced, does not contain calcium chloride or other potential corrosion enhancing ingredients.

### PRIMARY APPLICATIONS

- Flatwork concrete
- Architectural concrete
- General purpose ready mixed concrete

### FEATURES / BENEFITS

#### Plastic Concrete

- Improves finishability
- Improves workability
- Reduces water requirement
- Reduces segregation
- Improves setting times

#### Hardened Concrete

- Increases all strength
- Reduces permeability
- Improves finished appearance
- Reduces cracking
- Increases durability
- Non staining

### PACKAGING

EUCON A+ is packaged in bulk, 275 gal (1041 liter) totes, 55 gal (208 liter) drums, and 5 gal (18.9 liter) pails.

### SPECIFICATIONS / COMPLIANCES

EUCON A+ meets or exceeds the requirements of:

- ASTM C-494, Type A
- AASHTO M-194

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

#### **Strength Results**

Compared with Reference Concrete (plain mix)

#### **Using Water Reduction with Equal Slump**

#### **Compressive Strength**

#### **Test Date ASTM req. Eucon A+**

3 days	110%	exceeds 120%
7 days	110%	exceeds 116%
28 days	110%	exceeds 112%

Setting Time Change - Initial : 20 min. sooner  
Final: 20 min. sooner

Setting time will vary with dosage rate, mix design and ambient temperatures.

#### **Typical Reference Comparison Using Slump Gain**

Mix Design per cubic yard (per cubic meter)

Cement	517 lbs (307 kg)
Stone	2000 lbs (1187 kg)
Sand	1373 lbs (815 kg)
Water/Cement Ratio	.53
Eucon A+ Dosage	10 oz/cwt (650 ml/ckg)

	<b>Reference</b>	<b>Eucon A+</b>
<b>Slump</b>	4.5 in. (114 mm)	7.5 in. (191 mm)

#### **Time of Set (Hr:Min)**

	<b>Initial</b>	<b>Final</b>
	4:50	5:00 (+10 min)
	6:30	6:10 (- 20 min)

#### **Compressive Strength (in % vs. Reference)**

1 Day	100%	115%
7 Day	100%	105%
28 Day	100%	100%

**Dosage Rates**

EUCON A+ is normally used at dosages of 3-8 fluid oz per 100 lb (250-625 ml per 100 kg) cement. Dosage recommendations depend on the characteristics of the materials being used in the mix design.

Shelf life is 2 years in original, unopened package.

**DIRECTIONS FOR USE**

EUCON A+ should be added to the sand or water. It should not come in contact with dry cement or other admixtures until they are mixed with the concrete batch. EUCON A+ is dispensed with automatic equipment, thus insuring uniformity of admixture use throughout the job.

**PRECAUTIONS / LIMITATIONS**

- Care should be taken to maintain EUCON A+ above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Never agitate with air or an air lance.
- Add to mix independent of other admixtures.

Form Eucon A+-10.00

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