



# THE EUCLID CHEMICAL COMPANY

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# EUCON WR 91



## ASTM TYPE A - WATER REDUCING ADMIXTURE

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**EUCON WR 91** is a liquid, water-reducing and plasticizing admixture for concrete. EUCON WR 91 shows improved setting and finishing characteristics when compared to other commonly used type A water reducing admixtures. EUCON WR 91 may be used at a wide range of dosage rates. EUCON WR 91 does not contain calcium chloride or other potential corrosion-enhancing ingredients.

### PRIMARY APPLICATIONS

- Flatwork concrete
- General ready mix concrete
- Architectural concrete

### FEATURES / BENEFITS

#### Plastic Concrete

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

#### Hardened Concrete

- Increases strength at all ages
- Reduces permeability
- Improves finished appearance
- Reduces cracking
- Increases durability
- Non staining
- Compatible with air entraining agents

### SPECIFICATIONS / COMPLIANCES

EUCON WR 91 meets or exceeds the requirements of:

- ASTM C-494, Type A
- AASHTO M-194
- ANSI/NSF STD 61

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

#### **Strength Results**

Compared with reference concrete (plain mix)

Test Age	Compressive Strength	Flexural Strength
3 days	124%	113%
7 days	119%	108%
28 days	118%	104%

Setting Time Change - Initial +20 min.  
Final +20 min.

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

#### **Dosage Rates**

EUCON WR 91 is normally used at dosages of 2-6 fluid oz per 100 lb (125-375 ml per 100 kg) cement. Dosage recommendations depend on the characteristics of the materials being used in the mix design.

**Shelf life** is 1 year in original, unopened package.

### DIRECTIONS FOR USE

EUCON WR 91 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 WR 91 is dispensed with automatic equipment, thus insuring uniformity of admixture use throughout the job.

### PACKAGING

EUCON WR 91 is packaged in bulk, 275 gal (1041 liter) totes, 55 gal (208 liter) drums, and 5 gal (18.9 liter) pails.

### PRECAUTIONS / LIMITATIONS

- Care should be taken to maintain EUCON WR 91 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 WR 91-10.00

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