



# THE EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD • Cleveland, OH 44110  
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596  
www.euclidchemical.com

## EUCON RETARDER 100

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**CONCRETE WATER REDUCER - EXTENDED SET  
CONTROLLING RETARDER**

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**EUCON RETARDER 100** is a synthetically produced liquid water-reducing and set retarding admixture for concrete. It is a modified sodium gluconate. EUCON RETARDER 100 does not contain calcium chloride or other potential corroding materials and may be used in the presence of aluminum or zinc embedments. EUCON RETARDER 100 may be used at varying dosage rates to achieve extended set times compared to a control mix of up to 30 hours. Extended set times are frequently needed on bridge decks where the added dead weight of the concrete will cause deflection and a lack of bond to reinforcement and excessive cracking. It is compatible with air-entraining agents, waterproofers and calcium chloride.

### PRIMARY APPLICATIONS

- Prestressed concrete
- Concrete requiring water reducing and set time control
- Architectural concrete

### FEATURES / BENEFITS

#### Plastic Concrete

- Controls rate of set
- Improves finishability
- Improves workability
- Reduces water requirements
- Reduces segregation

#### Hardened Concrete

- Increases strengths
- Improves finished appearance
- Reduces cracking
- Reduces permeability
- Non staining

### SPECIFICATIONS / COMPLIANCES

EUCON RETARDER 100 meets or exceeds the requirements of:

- ASTM C-494, Type B & D
- AASHTO M-194
- CSA Standard CAN3 A266.2-M78

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

#### **Compressive Strength % Control**

Compared with Reference Concrete

	(plain mix)	(treated)
3 days	100	123.3
7 days	100	121.9
28 days	100	115.8
6 months	100	111.8
1 year	100	111.6

#### **Flexural Strength % Control**

Compared with Reference Concrete

	(plain mix)	(treated)
3 days	100	119.8
7 days	100	115.2
28 days	100	107.4

#### **Relative Durability**

97%                      97%

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

### PACKAGING

EUCON RETARDER 100 is packaged in bulk, 275 gal (1041 liter) totes, 55 gal (208 liter) drums or 5 gal (18.9 liter) pails.

### DIRECTIONS FOR USE

EUCON RETARDER 100 should be added to the sand or water. Typical dosage rates for EUCON RETARDER 100 are 2-6 oz per 100 lb (125-375 ml per 100 kg) of cement. It should not come in contact with dry cement or other admixtures until they are mixed in the concrete batch. EUCON RETARDER 100 is dispensed with automatic equipment, thus insuring uniformity of admixture use throughout the job.

### PRECAUTIONS / LIMITATIONS

- Care should be taken to maintain EUCON RETARDER 100 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated.
- Add to mix independent of other admixtures.

Form Eucon Retarder 100-10.00

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