# THE EUCLID CHEMICAL COMPANY



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

# **EUCON WR®**

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# WATER REDUCING ADMIXTURE

**EUCON WR** is a solution of a modified salt of ligno sulfonic acid which is completely free of any added chloride ions. It is a water-reducing, normal-set admixture for concrete. It provides a more plastic and cohesive mix in the fresh concrete and better durability, reduced shrinkage and less permeability in the hardened concrete.

#### **PRIMARY APPLICATIONS**

- Ready mixed concrete
- Prestressed concrete
- Precast concrete
- Lightweight concrete
- Expansive concrete

# **FEATURES / BENEFITS**

- Provides easier handling and finishing
- Increases strength
- Provides increased durability
- Reduces shrinkage and permeability

## SPECIFICATIONS / COMPLIANCES

EUCON WR meets or exceeds the requirements of:

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

#### **PACKAGING**

EUCON WR 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 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated.
- Add to mix independent of other admixtures.

# TECHNICAL INFORMATION

**Typical Engineering Data** 

Initial Setting Rate @ 75°F (24°C)

MixCementTimeReference514 lb (233 kg)3 hr 53 minEUCON WR513 lb (233 kg)4 hr 39 minCompressive Strength compared to reference mix

Age EUCON WR
3 days 122%
7 days 121%
28 days 116%
6 months 115%
1 year 114%

# **Flexural Strength**

Age EUCON WR 3 days 110% 7 days 123%

**Relative Durability Factor - 96.6%** 

Shrinkage - passes

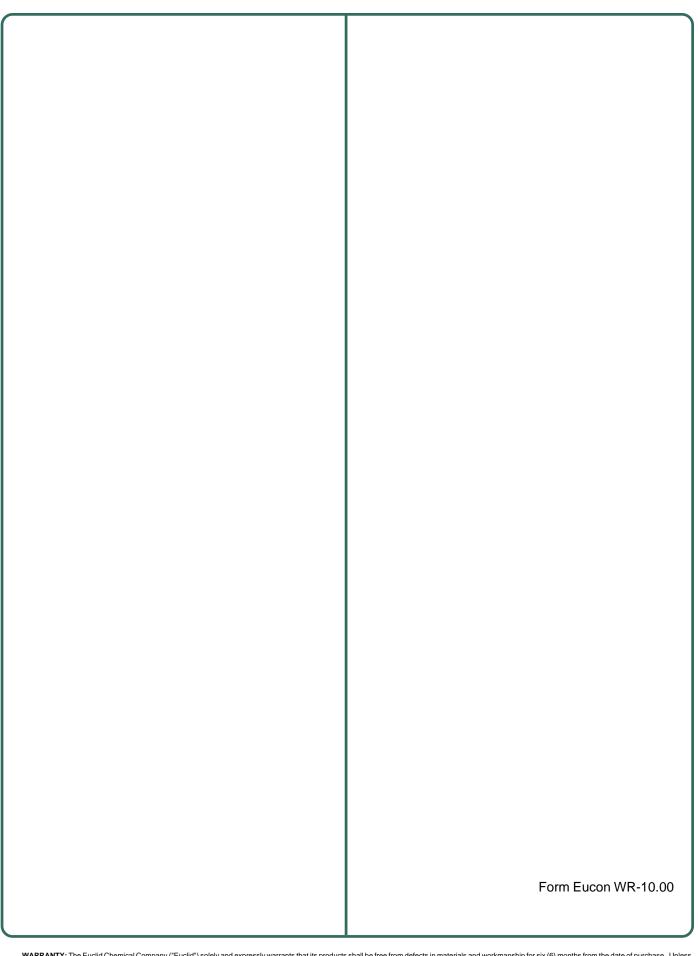
**Shelf life** is 1 year in original, unopened package.

## **DIRECTIONS FOR USE**

EUCON WR is dispensed into any part of the concrete material, except cement and preferably into the water at the usual rate of 4 oz per 100 lb (250 ml per 100 kg) cement. EUCON WR may be used in multiple dose rates for increased performance, and when used at 12 oz per 100 lb (750 ml per 100 kg) cement it then will comply with the requirements of a water-reducing, cement retarding admixture ASTM C-494, Type D. It will freeze at 29°F (-2°C) but will return to its original state after thawing and thorough mixing. EUCON WR is compatible with other admixtures, i.e. calcium chloride and air entraining agents; however, each admixture should be added to the mix separately.

When using EUCON WR with an air entraining agent, the dosage rate of the air entraining agent should be reduced. EUCON WR may react with the air entraining agent increasing its air producing efficiency.

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



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