



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 89

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**LOW MID RANGE WATER REDUCER
AND FINISHING AID**

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EUCON WR 89 is a synthetically produced liquid, water-reducing and plasticizing admixture for concrete. EUCON WR 89 is designed to give optimum performance in cooler weather where many normal water-reducing admixtures retard setting times of concrete. Where fly ash is being utilized as a partial cement replacement, EUCON WR 89 improves setting and finishing characteristics when compared to commonly used Type A water-reducing admixtures. Dosage rates may be increased to achieve additional slump of up to 4 1/2" (114 mm) without changing the water-cement ratio. EUCON WR 89 does not contain calcium chloride or other potential corrosion-enhancing ingredients. It is compatible with air-entraining agents, waterproofer and calcium chloride, but they must be added separately to the mix.

PRIMARY APPLICATIONS

- Flatwork concrete
- General ready mix concrete
- Architectural concrete

FEATURES / BENEFITS

Plastic Concrete

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

Hardened Concrete

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

TECHNICAL INFORMATION

Typical Engineering Data Strength Results

Compared with plain reference concrete

Age	Compressive Strength	Flexural Strength
3 days	111%	102%
7 days	111%	104%
28 days	110%	108%

Water Reduction-5.0% is achievable at dosage rates of 2 - 4 oz per 100 lb (125-250 ml per 100 kg) of cement. Exact water reduction is determined by many factors such as cement brand, local aggregates, and concrete temperature.

Shelf life is 1 year in original, unopened package.

Dosage Rates

EUCON WR 89 is normally used at dosages of 2 to 4 oz per 100 lb (125-250 ml per 100 kg) of cement. Since an optimum dosage cannot be determined until testing is performed with local cements, aggregates and/or other raw materials, a technically trained representative of The Euclid Chemical Company should be consulted to determine exact dosage rates.

SPECIFICATIONS / COMPLIANCES

EUCON WR 89 fully meets or exceeds the requirements of:

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

PACKAGING

EUCON WR 89 is packaged in bulk, 275 gal (1041 liter) totes, 55 gal (208 liter) drums and 5 gal (18.9 liter) pails.

DIRECTIONS FOR USE

EUCON WR 89 should be added to the sand or water. It should not come in contact with dry cement or other admixtures until they are mixed in the concrete batch. EUCON WR 89 is dispensed with automatic equipment, thus, ensuring uniformity of admixture use throughout the job.

PRECAUTIONS / LIMITATIONS

- Care should be taken to maintain EUCON WR 89 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated.
- Add to mix independent of other admixtures.

Form Eucon WR 89-10.00

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