



THE EUCLID CHEMICAL COMPANY

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EUCON RETARDER

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WATER REDUCING-SET RETARDING ADMIXTURE

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EUCON RETARDER is a solution of a sodium lignosulfonate and is completely free of any calcium chloride. It is a water reducing, set retarding admixture for concrete. It provides increased working time, better workability, higher durability and reduced shrinkage and permeability.

PRIMARY APPLICATIONS

- Structural concrete
- Bridge decks
- Highway concrete
- Lightweight and expansive concretes
- Warm weather applications

FEATURES / BENEFITS

- Provides easier handling and finishing
- Elimination of cold joints between subsequent pours in mass or structural concrete
- Provides increased durability
- Reduces shrinkage and permeability
- Aids in placing bridge deck concrete where it is desirable to load the entire section prior to the concrete achieving initial set

SPECIFICATIONS / COMPLIANCES

- EUCON RETARDER meets the requirements of ASTM C-494, Type D Admixture.
- EUCON RETARDER meets the requirements of AASHTO M-194.

PACKAGING

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

TECHNICAL INFORMATION

Typical Engineering Data

Air Entrained Concrete, EUCON RETARDER mixes compared to Control Mix:

Properties	6 Fluid oz/100 lb (375 ml/100 kg)	12 Fluid oz/100 lb (750 ml/100 kg)
Unit Water Content:	93.2%	91.5%

Time of Setting:

Initial	+0:30	+2:45
Final	+0:30	+3:00

Compressive Strength: percent of control

3 days	158	144
7 days	141	149
28 days	133	142
6 months	123	124
1 year	110	122

Flexural Strength: percent of control

3 days	115	115
7 days	108	118
28 days	109	103

Shelf life is 1 year in original, unopened package.

DIRECTIONS FOR USE

EUCON RETARDER is dispensed into any part of the concrete materials except cement, but preferably into the water.

Typical usage at selected temperatures.

<u>Rate</u>	<u>Temperature</u>
6 oz (375 ml)	<70°F (<21°C)
8 oz (500 ml)	>0-80°F (>21-29°C)
10 oz (625 ml)	85-100°F (29-38°C)
12 oz (750 ml)	>100°F (>38°C)

PRECAUTIONS / LIMITATIONS

- Will freeze at 26°F (-3°C), but will return to its original state after thawing and thorough mixing.
- EUCON RETARDER is compatible with other admixtures; however, each admixture should be added to the mix separately.

Form Eucon Retarder-10.00

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