



# EUCON DC

## PLASTICIZING ADMIXTURE FOR MANUFACTURED CONCRETE PRODUCTS

### DESCRIPTION

**EUCON DC** is a ready to use polycarboxylate-based admixture used to more efficiently produce machine-made concrete products. EUCON DC increases production rate, improves cement efficiency, and accelerates early strength development. Units produced with EUCON DC are more dimensionally stable, have improved edge and corner definition, and are more resistant to damage in transport. EUCON DC contains no added chlorides and will not promote corrosion of steel.

### PRIMARY APPLICATIONS

- Concrete pipe
- Concrete roofing tiles
- Concrete pavers
- Segmental retaining wall systems
- Concrete block
- Drycast products

### FEATURES/BENEFITS

- Produces no swipe
- Improves feed and cycle times
- More defined edges
- Improved compressive strengths
- Extended mold life
- Reduced per unit costs
- Reduces cement content

### TECHNICAL INFORMATION

#### Physical Properties

Specific Gravity ..... 1.02  
 Freezing Point ..... 20°F (-6.7°C)  
 Appearance..... Light amber color

#### PERFORMANCE IN CONCRETE BLOCK

Plant results in standard concrete block (8" normal weight) with EUCON DC dosed at 3 oz. per 100 lbs (196 mL/100 kg) of cementitious materials vs. a conventional plasticizer:

	<u>REFERENCE</u>	<u>EUCON DC</u>
<b>Compressive Strengths, psi (MPa):</b>		
7 day	1720 (11.9)	1980 (13.7)
28 day	2020 (13.9)	2200 (15.2)

#### PERFORMANCE IN CONCRETE PIPE

Field results in 24" concrete pipe dosed with EUCON DC dosed at 3.5 oz per 100 lbs (228 mL/100 kg) of cement.

**NOTE: The mix containing EUCON DC utilized 100 lbs/yd<sup>3</sup> (59 kg/m<sup>3</sup>) less cement than the reference.**

	<u>REFERENCE</u>	<u>EUCON DC</u>
<b>Compressive Load, lbs (N)</b>		
7 day	22,000 (98,000)	31,000 (138,000)
28 day	30,000 (133,500)	40,000 (178,000)

### PACKAGING

EUCON DC is available in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums, and 5 gal (18.9 L) pails.

## SHELF LIFE

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1 year in original, unopened container.

## DIRECTIONS FOR USE

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EUCON DC should be introduced into initial mix water but never directly on dry cement. Mix thoroughly as needed for a given mixer type. EUCON DC will reduce water demand at wetter consistencies such as those used to produce pipe and hollow-core plank. Therefore, water content should be carefully monitored to achieve desired plasticity. For concrete masonry products, normal water contents should be maintained to maximize the performance of EUCON DC.

The dosage range for Eucon DC is 2 to 6 oz. (130 to 391 mL/100 kg) per 100 lbs of cementitious.

To enhance the performance of the Eucon DC, and to modify product surface properties, add Eucon BK-S8 plasticizing admixture.

## PRECAUTIONS/LIMITATIONS

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- Test mixes should be conducted to determine appropriate dosage. Please notify your local Euclid Chemical field representative to assist with trial production
- Protect from freezing. If frozen, EUCON DC can be reconstituted by mechanical agitation.
- Do not agitate with air.
- In all cases, consult the Safety Data Sheet before use.

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