



EUCON™ 1037

HIGH RANGE WATER REDUCER - SUPERPLASTICIZER

EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Packaged in bulk, 275 gal (1041 L) totes, 55 gal (208 L) drums, and 5 gal (18.9 L) pails

SHELF LIFE

2 years in original, unopened container

SPECIFICATIONS/COMPLIANCES

ASTM C494, Type A & F

AASHTO M194

ANSI/NSF STD 61

DESCRIPTION

EUCON 1037 is a high range water reducing admixture. It may be added to the concrete at the job site or at the ready mix concrete plant. EUCON 1037 is formulated to retain plastic consistency for 30-60 minutes after dosing, depending on the initial slumps, dosage rates, and ambient temperature. EUCON 1037 contains no added chlorides or chemicals known to promote the corrosion of steel. It is also compatible with most admixtures including air-entraining agents, accelerators, most water-reducers, retarders, shrinkage reducers, corrosion inhibitors, viscosity modifiers, and microsilica; however, each material should be added to the concrete separately.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Improves workability/finishability
- Produces "flowing" concrete
- Reduces water requirement
- Good slump retention
- Reduces segregation, bleeding, cracking and permeability
- Increases strength
- Improves finished appearance
- Increases durability
- Produces high early strengths when used with Type I cement

PRIMARY APPLICATIONS

- Flatwork and mass concrete
- Prestressed concrete
- Low water/cement ratio concrete
- High slump, flowable concrete
- High performance concrete
- General ready mix concrete
- Heavily reinforced concrete

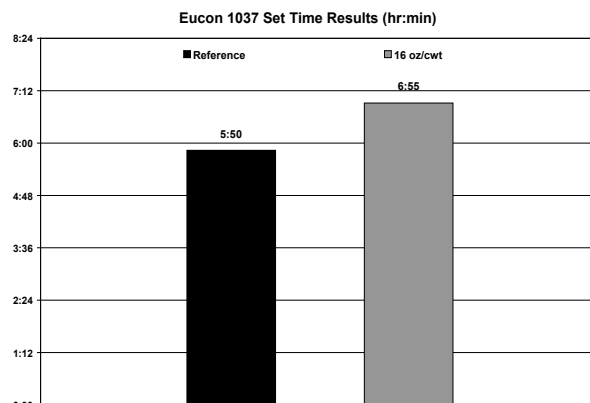
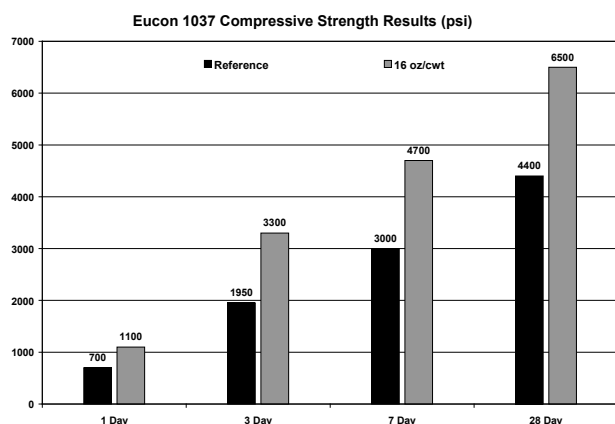
PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain EUCON 1037 above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Do not agitate with air or an air lance.
- Add to mix independent of other admixtures.
- In all cases, consult the Safety Data Sheet before use.

TECHNICAL INFORMATION

PERFORMANCE DATA

The following test results were achieved using typical ASTM C494 mix design requirements, 517 lb/yd³ (307 kg/m³) cement content and similar (± 0.5)% air content. These results were obtained under laboratory conditions with materials and mix designs meeting the specifications of ASTM C494. Changes in materials and mix designs can affect the dosage response.



DIRECTIONS FOR USE

EUCON 1037 has a recommended dosage range of 8-25 oz/100 lbs (520-1630 mL/100 kg) of cementitious material. Dosage recommendations depend on the characteristics of the materials being used in the mix design. Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials used.

For any concrete application including Self Consolidating Concrete (SCC), the dosage of EUCON 1037 will vary depending on the mix design, local materials, and individual needs of the concrete producer. Trial mixes should be run to verify plastic and hardened performance with local materials. If the material gradations are not optimum for SCC, a viscosity modifier may be used to improve the quality of the mix. Please consult a local Euclid Chemical Sales Professional for trial mixtures and dosage recommendations.

EUCON 1037 can be added to the initial batch water or directly on the freshly batched concrete and mixed for approximately 5 minutes or 70 revolutions. However, better results have been observed batching directly on the freshly batched concrete. It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch. Forms for walls or narrow sections must be watertight, strong and have good bracing. During the "flowing period", when the concrete is at a slump of 7-9 inches (180-230 mm), the concrete will exert a higher pressure at the base of the form than conventional concrete. Formwork for slabs is the same as for conventional concrete.

Figure 1: Recommended Dosage of Eucon 1037 to achieve flowable concrete (7-9"/180-230 mm slump)

Initial Slump, inches (mm)	Dosage Range of Eucon 1037, oz/100 lbs (mL/100 kg)
4 (100)	8-10 (520-650)
3 (75)	10-12 (650-780)
2 1/2 (65)	12-14 (780-910)
2 (50)	14-16 (910-1040)
1 1/2 (40)	16-18 (1040-1170)

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