



# EUCON 25 M

**HIGH RANGE WATER REDUCER - SUPERPLASTICISER**

**EUCLID CHEMICAL**

**SPECIALTY PRODUCTS**

## DESCRIPTION

**EUCON 25 M** 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 25 M** is formulated to retain plastic consistency for 30-60 minutes after dosing depending on the initial slumps, dosage rates, and ambient temperature. No chlorides are used in its formulation; consequently, it is recommended for prestressed concrete. It is also compatible with air-entraining agents, waterproofing agents, calcium chloride and many other admixtures; however, each material should be added to the concrete separately.

## PRIMARY APPLICATIONS

- High performance concrete
- General ready-mixed concrete
- Mass concrete
- Low water cement ratio concrete
- High slump/flow concrete

## FEATURES/BENEFITS

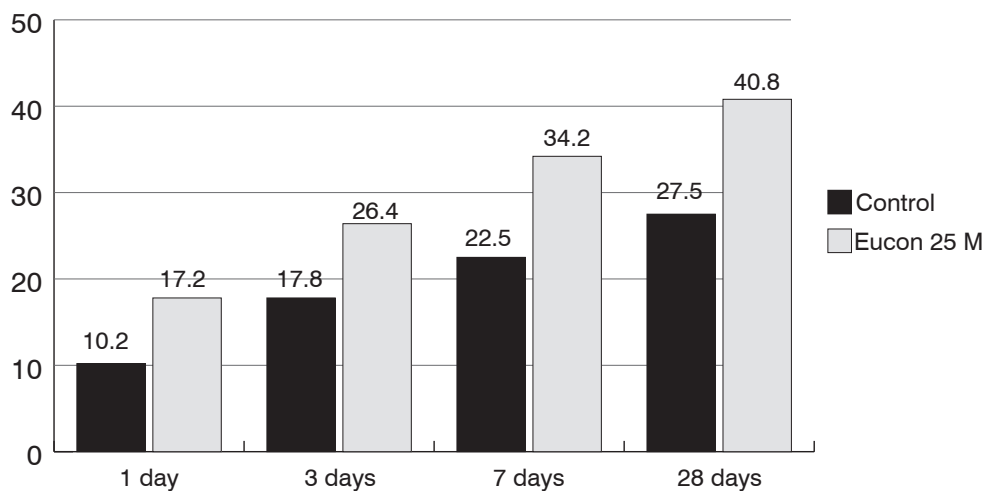
- Produces low water content and low water/cement ratio concrete allowing higher strengths
- Produces flowing concrete with better than normal strengths
- Aids in concrete placement and reduces labour cost
- When used in precast work with Type I cement will produce the high early strengths

## TECHNICAL INFORMATION

### Performance Data

The following test results were achieved using typical ASTM C 494 mix design requirements, 320 kg/m<sup>3</sup> 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 C 494. Changes in materials and mix designs can affect the dosage response of **EUCON 25 M**.

**EUCON 25 M Compressive Strength Results (N/mm<sup>2</sup>) (700ml/100kg cement)**



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## PACKAGING

**EUCON 25 M** is packaged in 20 L jerry can. 200 L available upon request.

## DIRECTIONS FOR USE

**EUCON 25 M** can be added directly into the freshly batched concrete and mixed for approximately 5 minutes. It should not come into contact with dry cement or other admixtures until mixed thoroughly with the concrete batch.

**EUCON 25 M** is typically used at dosages of 600 to 1500 mL per 100 kg of cementitious material. Other dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

For any concrete application including Self-Consolidating Concrete (SCC), the dosage of **EUCON 25 M** 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 25 M** is 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.

**Figure 1: Recommended Dosage of Eucon 25 M to achieve flowable concrete**

Initial Slump, (mm)	Dosage Range of Eucon 25 M, (mL/100 kg)
75	600 - 650
100	700 - 800
125	900 - 1000
175	1100 - 1300
200	1400 - 1500

## PLACEMENT

Concrete treated with **EUCON 25 M** may be placed in the same fashion as conventional concrete.

## FORMWORK

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 180-200 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.

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