

## MULTIFLOW 606 A

### Water Reducing Plasticizer with Increased Early Strength Development and Normal Setting Characteristics

#### Specification Type

ASTM C494 TYPES A & D, CRD-C87 TYPES A & D Colour

#### Description

A liquid admixture combining Polyhydroxylated Polymers and other proprietary chemicals. It is an integral concrete plasticizer and water reducing agent with increased early strength performance. The plasticizer disperses and deflocculates cement particles within a concrete mix. Further, it improves workability and allows reductions in the free water content of the concrete mix.

#### Typical Applications

- \* In areas of congested reinforcement where high workability is of benefit
- \* In concrete brick and block manufacture
- \* To increase workability in mass concrete pour

#### Advantages

- \* Its plasticizing action will give an increase in workability thus facilitating water reduction in the concrete depending on sands used
- \* Concrete will be less susceptible to bleeding and segregation, especially when being poured or pumped and will have increased durability and reduced permeability
- \* Of particular benefit in crushed aggregate mixes where the improved cohesion of the mix results in minimizing sand runs and eliminating bleeding
- \* After the initial set, the concrete will attain a high early strength showing an increase over control strength at both early and ultimate ages
- \* Cohesiveness of the mix aids in pouring of concrete

#### Typical Properties

Colour:	Dark brown liquid
Specific Gravity:	1.190 at 20°C
Air Entrainment:	1.4% to 2.0% dependent on grading of sand
Chloride Content:	At 250ml / 100kg cementitious binder chloride ion content is 0.048% which conforms to SABS 0100 Part II item 5.8.1.4
Freezing Point:	0°C - can be reconstituted if stirred after thawing
Storage:	Up to 1 year when stored in accordance with manufacturer's instructions
Flashpoint:	None

#### Directions for Use

MULTIFLOW 606A should be added to the concrete mix at the same time as the water during the mix cycle. Never add MULTIFLOW 606A to dry cement. No extension to normal mixing time is necessary.

#### Dosage

As with most admixtures, field trials should be conducted to determine the optimum dosage rates of MULTIFLOW 606A. These trials will be helpful in assessing the correct dosages for desired conditions, such as high early strength. As a guide, a dosage range of 240-500ml per 100kg of cement is recommended, although dosages may vary considerably depending on sands and aggregates used. MULTIFLOW 606A at a dosage of 250ml per 100kg cement will not exceed the applicable chloride ion values as indicated in SABS 0100 PART II (1980) for pre-stressed concrete. Values given for stressing strands and wires of 5mm diameter and less should not exceed 0, 50%.

#### Compatibility

MULTIFLOW 606A can be used with all types of Portland Cement including Sulphate Resisting, Slagment, Pulverized Fuel Ash and Silica Fume. MULTIFLOW 606A should not be premixed with other admixtures. If other admixtures are to be used they must be dispensed separately. Consult MULTI CONSTRUCTION CHEMICALS' Office or Representative for advice.

#### Dispensing

The measured quantity should be added directly to the mixer at the same time as the mixing water. MCC LIMPOPO will install a suitable dispenser to the batching plant / mixer "free-on-loan".

#### Packaging

Available in 25 and 200 litre drums. Bulk deliveries are available on request. Protect from extreme temperature changes when storing drums.

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### Curing

It is essential to cure all concrete in order to achieve design strength and reduce moisture loss. Cure with MULTICURE Curing Compounds.

### Quality Assurance

MCC LIMPOPO production and testing programmes comply to local and international testing standards, these stringent testing requirements also comply to ASTM C 494, B.S. 5075 and CRD-C87 performance specifications for concrete admixtures.

### Updates

This data sheet supersedes all previous issues prior to this date: 31/05/97.