

# Master Polyheed<sup>®</sup> 8118

## High range water reducing and retarding admixture

### MATERIAL DESCRIPTION

**Master Polyheed<sup>®</sup> 8118** is a superplasticising, high-range, water-reducing and retarding admixture formulated to produce low slump loss rheoplastic concrete. Rheoplastic concrete is fluid, workable, or easily flowing concrete but at the same time free from segregation.

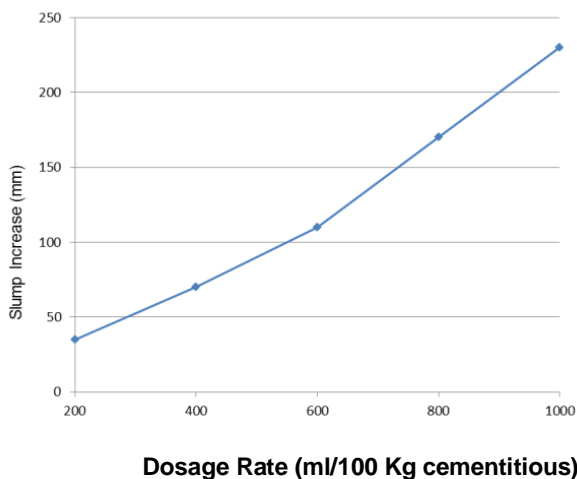
The slump retention characteristics of rheoplastic concrete permit the addition of **Master Polyheed<sup>®</sup> 8118** at the batch plant.

This ready-to-use chloride free liquid admixture meets ASTM C-494 requirements for Type G admixture and AS 1478 requirements for type HRWR.

### RECOMMENDED FOR

- Mass concrete pours
- Long distance transport
- High manufactured sand concrete
- Pumped concrete
- Concrete in hot climates
- Central batch plants for concrete to be transported for more than 1 hour
- Concrete to be pumped over a distance of more than 200 metres or to a considerable height

### PERFORMANCE: AS SUPERPLASTICISER



This graph may be used as a guide only. Actual dosage rate will depend on type of cements, aggregates and temperatures.

### DOSAGE

**Master Polyheed<sup>®</sup> 8118** is normally dosed at 0.4 – 1.8 L per 100 kg of cementitious material. Other dosages may be used depending on the mix design, type of cements, aggregates, and ambient conditions of the concrete. The actual dose depends on the degree of water reduction or flow required.

### WORKABILITY (SLUMP RETENTION)

**Master Polyheed<sup>®</sup> 8118** ensures that the rheoplastic concrete remains workable for about 2 hours at 20°C and for 1 hour at 40°C. The workability loss depends not only on temperature, but also the type of cement, the nature of aggregates and the method of transport. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

### DISPENSING

**Master Polyheed<sup>®</sup> 8118** can be added at the batch plant or on site. When adding at batch plant, delay addition until cement has been thoroughly wetted and at least 80% of water added. When introduced on site, mix for further 3 minutes after addition.

### COMPATIBILITY

**Master Polyheed<sup>®</sup> 8118** is compatible with both water-reducers and air entraining agents approved under ASTM specifications when used in concrete but must be dispensed separately into the concrete mix. Should only be used in conjunction with water-reducing admixtures after specific test information is available at the dose rates proposed, otherwise extended retardation could result.

### RATE OF HARDENING

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

### PACKAGING

**Master Polyheed<sup>®</sup> 8118** is supplied in 205 litre sealed drums and bulk delivery

For additional information on **Master Polyheed<sup>®</sup> 8118** and its use in developing a concrete mix with special performance characteristics, contact your local Master Builders Solutions representative.

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® = registered trademark of a MBCC Group member in many countries of the world

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