

# MasterSet<sup>®</sup> AC 122

## Set accelerating concrete improving admixture

### DESCRIPTION

**MasterSet AC 122** is a liquid admixture designed to accelerate the setting time of concrete while producing high early and ultimate strengths.

**MasterSet AC 122** fully meets the requirements and complies with ASTM C494 for Types C and E admixtures.

**MasterSet AC 122** is compatible with all cements meeting recognised international standards.

### RECOMMENDED FOR

MasterSet AC 122 is recommended for use in concrete where accelerated set and improved performance are required.

### FEATURES AND BENEFITS

- Reduce water content** Increased early and ultimate strengths.
- Accelerated setting time** Reduced protection time in cold weather.
- High early strength** Earlier stripping and reuse of forms for precast work. .
- Improved workability and cohesiveness** Better concrete quality.

### TYPICAL PERFORMANCE DATA

Concrete containing **MasterSet AC 122** develops higher early and ultimate strengths than plain concrete. With Type III cement or calcium chloride mixes, **MasterSet AC 122** admixtures also increase concrete strength at all ages.

#### Rate of hardening

The graph illustrates and serves as a guide to the hardening rates of concretes at variable concrete and air temperatures at different dosages of **MasterSet AC 122**. Trial mixes should be made with job materials to determine the dosage required for a given degree of acceleration..

### APPLICATION

**MasterSet AC 122** can be added to the concrete with the mixing water.

### DOSAGE

**MasterSet AC 122** is used at the rate of 1,000 to 3,000 ml per 100 kg of cementitious materials. As the dosage of **MasterSet AC 122** is increased up to 3,000 ml, acceleration of the setting time continues. This larger dosage further increases early and ultimate strengths. Consult local Master Builders Solutions Construction Chemicals field representatives for assistance in determining dosage.

### PACKAGING

**MasterSet AC 122** is supplied in 205L drums or bulk delivery.

### SHELF LIFE

**MasterSet AC 122** can be stored for 12 months if stored at temperatures above 0°C in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

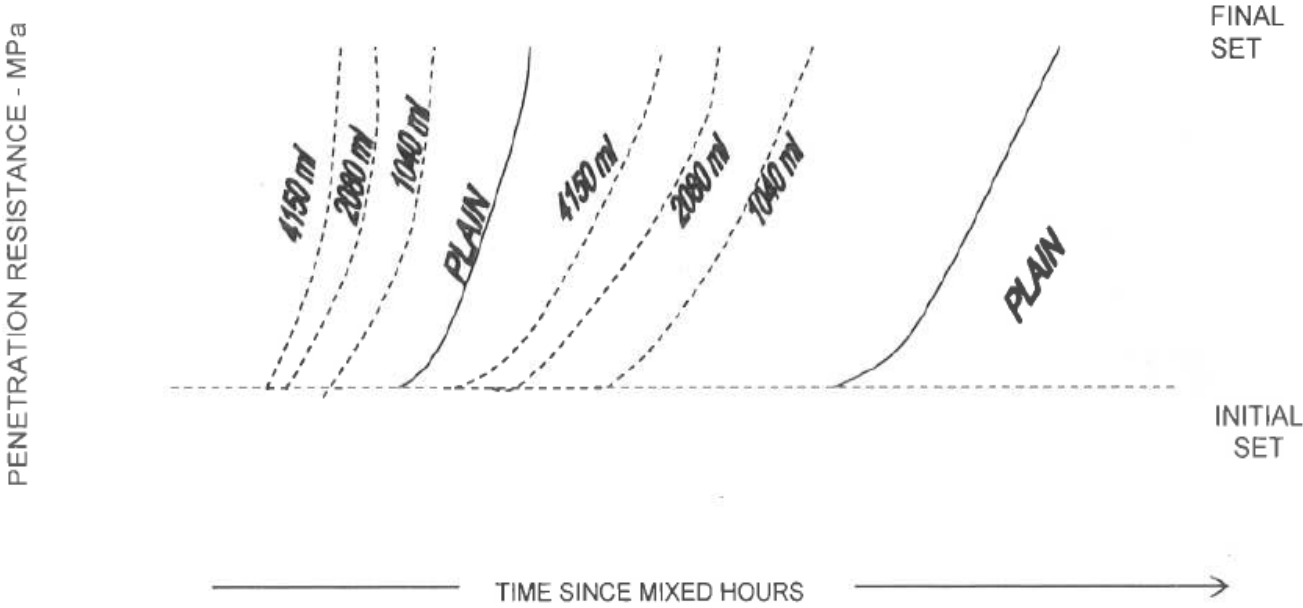
### PRECAUTIONS

**Health :** **MasterSet AC 122** does not contain any hazardous substances requiring labelling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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**ACCELERATED SETTING WITH MASTERSET AC 122**  
**ASTM C 403**



(A) Conc. Temp 28°C  
 Air Temp. 22° C

(B) Conc. Temp. 7°C  
 Air Temp. 7°C

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