

MasterSet AC 800

Non-chloride water-reducing and set-accelerating admixture

Material Description

MasterSet AC 800 is a water reducer and non-chloride accelerator admixture liquid admixture. It is primarily formulated to provide water reduction and acceleration to the setting time of concrete under cold winter conditions. It provides high early strength in special application concrete, while water reduction and workability retention of the fresh concrete are improved compared to previous technologies. It does not contain added chloride and conforms to chloride ion limits required by concrete industry standards.

MasterSet AC 800 complies with AS 1478 Type WRAc.

Areas of Application

MasterSet AC 800 is recommended for any concrete that requires short setting time characteristics and early strength, superior workability, pumpability and finishability. Typical application fields are housing, bridges, concrete highway as well as manufactured concrete products. Particularly suitable when smooth surface of the concrete is required. It is also applicable in concrete subject to chloride ion constraints such as in coastal environments.

Characteristics & Benefits

- Improved early set of concrete in winter condition
- Encouraged concrete early strength development
- Reduced bleed water during hydration
- Enhanced concrete rheology
- Consistent performance
- Produced easy finishing concrete
- Potential cement saving
- Compatibility with wide range of cements, fly ashes and slags

Quantity to Use

MasterSet AC 800 is normally used at a dose rate of 500mls per 100kg of cementitious material depending on the composition of the basic ingredients of the concrete and ambient conditions. It can be used between 300mls – 1200

mls per 100kg of cementitious material resulting in increased water reduction and faster setting rates especially when temperatures are below 10°C with sufficient trials.

MasterSet AC 800 increases the workability of concrete. The duration of workability retention depends on the ambient temperature, types of cement, aggregates used, dosage rate and method of transport.

Compatibility

MasterSet AC 800 is not compatible with admixtures of MasterRheobuild series. Before mixing with other admixtures, always contact your local Technical Sales Representative.

MasterSet AC 800 can be used with air entraining admixtures and other Master Builders Solutions admixtures to achieve cost effective customized performance. However, all admixtures should be dispensed separately to the initial batching water to ensure complete distribution throughout the mix. **MasterSet AC 800** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

Dispensing

MasterSet AC 800 can be added into the mixing water. Alternatively, it is possible to mix the concrete using approximately 80-85% of the total mixing water to yield a stiff and homogenous mix.

Add **MasterSet AC 800** to the mixture at the specified dosage. Then, while continuing to mix, add the remaining water until the specified workability is obtained.

Adding **MasterSet AC 800** to a dry concrete mix is not recommended. A separate dispenser and feed line must be used.

Packaging

MasterSet AC 800 is supplied in bulk, 1000 litre IBC and 20 litres.



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Storage & Shelf Life

Containers should be stored tightly sealed in a dry place. Keep away from heat. Store protected against freezing. Keep only in the original container.

MasterSet AC 800 has a shelf life of 12 months.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

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STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

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