

MasterEase 3000

Low viscosity concrete concept

Material Description

MasterEase 3000 is a unique and versatile admixture designed to impart exceptional rheological properties by lowering the viscosity and yield stress of fresh concrete. **MasterEase 3000** facilitates faster mixing and discharge of concrete. It considerably improves the pumpability of concrete by reducing pumping pressures. **MasterEase 3000** also makes it easier to place and finish concrete.

MasterEase 3000 complies with the standard AS 1478.1-2000 Chemical Admixtures for Concrete, Type SN.

MasterEase 3000 is based on innovative and patented polymer technology developed by Master bui.

Its action differs from traditional polymers to the extent that the adsorption of **MasterEase 3000** on the binder particles is provided by a chemical bond which does not impede the flow of concrete. This innovation significantly improves the rheological behaviour of concrete treated with MasterEase 3000 resulting in lower viscosity and yield stress coupled with improved workability retention.

Areas of Application

- Pre-mixed concrete
- Piling concrete
- Post-tensioned concrete
- Precast & prestressed concrete
- Self-Compacting & Super Workable Concrete
- High & Ultra High Strength concrete
- High Performance Concrete
- Shotcrete
- Mixes containing manufactured sands, slag, silica fume, synthetic & steel fibres

Characteristics and Benefits

- Faster mixing of concrete in dry & wet batching processes
- Quicker discharge from agitator trucks, central mixers, kibbles & chutes

- Reduces pumping pressure for horizontal & vertical applications
- Good response to vibration & compaction
- Ease of concrete placing & finishing
- Improved surface finish
- Enhanced durability
- Achieves approximately 8% water reduction at the nominal dose rate
- Compatible with all types of binders, SCMs & mineral additions

Properties

Colour	Brown
Specific Gravity	1.070 – 1.011
pH	5.0 – 7.0

Application

MasterEase 3000 is a ready-to-use liquid admixture that can be added to the concrete mix as a separate component with the initial batch water. However, optimal performance is achieved if **MasterEase 3000** is dispensed into the concrete after the addition of 50 – 70% of the mixing water. Avoid adding the admixture to dry aggregates / cement. A separate dispenser and feed line must be used.

Dosage

The recommended range is 200ml to 600ml per 100kg of cementitious content depending on the mix design and desired properties.

When **MasterEase 3000** is used in conjunction with superplasticisers from the MasterGlenium range of products, the dosage of MasterGlenium can be reduced.

The optimum dosage should be determined by conducting trials using actual materials.

Please contact your local Master Builders Solutions representative for guidance & recommendations.

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Compatibility

MasterEase 3000 is not compatible with admixtures containing sulphonated naphthalene formaldehyde condensates.

MasterEase 3000 may be used in conjunction with other Master Builders Solutions admixtures such as MasterGlenium, MasterSure, MasterPolyheed, MasterPozzolith, MasterAir, MasterSet, MasterMatrix and MasterLife range of products.

It is imperative that any combination of admixtures must be tested in controlled laboratory or field trials to verify the desired performance of the concrete mix.

Packaging

MasterEase 3000 is supplied in bulk, 1000 litre pallecons or IBCs, 205 litre drums & 20 litre cubes.

Storage & Shelf Life

MasterEase 3000 must be stored in a clean, dry, well-ventilated area away from ignition sources, heat or flame. Protect from direct sunlight and freezing. MasterEase 3000 has a shelf life of 12 months when stored under recommended conditions.

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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