

MasterAir

Air entraining admixture for concrete

Material Description

MasterAir is an ultra-stable air-entraining admixture for use in all types of concrete. **MasterAir** is particularly recommended for use in concrete in which it has previously been difficult to maintain the desired air content. **MasterAir** is supplied as a ready-to-use aqueous solution, free of added chloride.

Areas of Application

- Low slump concrete
- Flowable concrete
- High temperature concrete
- Concrete with extended working times
- Lightweight and prestressed concrete
- Imparting workability to lean harsh mixes
- Reducing bleeding caused by grading deficiencies in the concrete materials

Characteristics and Benefits

The use of **MasterAir** to entrain optimum air content in concrete results in the following improvements in concrete quality:

- Improved plasticity and workability
- Reduced segregation and bleeding
- Reduced permeability - increased watertightness
- Increased durability
- Increased resistance to freeze/thaw cycles

In addition **MasterAir** provides:

- Improved ability to entrain and retain air in concrete - improved stability
- Improved air-void system in hardened concrete

Compatibility

MasterAir is compatible for use in concrete containing MasterPozzolith or other Master Builders Solutions admixtures such as high range water reducers, accelerators, retarders, densifiers and water repellents.

However, combinations of admixtures may have a synergistic effect effectively increasing air entrainment and therefore, should always be tested in concrete before use.

When two or more admixtures are used, they must be added to the mix separately (through dispensers or by hand) and must not be mixed with each other prior to adding to the concrete mix.

Quantity to Use

MasterAir 905 is normally used at 40-400mls/m³.

MasterAir 940 is normally used at 10-100mls/m³.

Concrete mixes such as barrier wall, kerb, shotcrete and some pavement mixes may require higher dosages of up to 2700ml/m³ of **MasterAir 905**.

Concrete mixes such as barrier wall, kerb, shotcrete and some pavement mixes may also require higher dosages of up to 1000ml/m³ of **MasterAir 940**.

There is no standard dosage rate for **MasterAir**. The exact amount of air entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials. The amount of **MasterAir** to use will depend upon the amount of air required under actual job conditions and therefore, should be determined by trial mixes before commencing production.

In mixes containing water reducing or other admixtures, the amount of **MasterAir** needed may be somewhat less than the amount required in plain mixes.

In fly ash mixes, the amount of **MasterAir** needed can be more than double that required in cement only mixes.

How to Use

MasterAir is supplied as a ready-to-use solution. Do not dilute and do not mix directly with any other admixture. Add **MasterAir** to the concrete mix either by dispenser designed for air entraining admixtures or by adding manually, using a suitable measuring device. Measure the air content of the trial mix and increase or decrease the quantity of **MasterAir** as needed to obtain the desired air content in the production mix. Check the air content of the first production batch and make further adjustments if needed.

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Packaging

MasterAir is available in 20 litre drums, 1000 litre pallecons and bulk delivery.

Storage & Shelf Life

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

MasterAir 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

MasterAir-ANZ-V24 0523

STATEMENT OF RESPONSIBILITY

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